

# **Dental Office Products**

## **2015/2016**

Giving a hand to oral health.

# Giving a hand to oral health.

## Dear customers,

With skilled hands, every day you as a dentist give back smiles and quality of life to patients. As a traditional partner, Heraeus Kulzer supports you with reliable materials. "Giving a hand to oral health" – this conviction is the main focus of our work and our new market presence.

Your hands are your most important resource. You have put a great deal of time, effort and money into perfecting your skills. But only the combination of manual skills and high-performance materials ensures precisely tailored results and therefore satisfied patients. This objective connects us with you.

As a materials specialist, we provide you with an extensive range of dental materials for various techniques and indications: from diagnostics, through tooth preservation, all the way to prosthetics. The demands placed on the safety of dental products are rising. This is also apparent to the users who increasingly have to document quality. With Heraeus you can rely on tried and trusted safety. Every product placed in the mouth has undergone at least one clinical study, often several. To this end, we work with renowned universities throughout the world. This gives you the good feeling of clinically dependable performance.

Those who wish to be successful in the dental market have to keep their specialist skills up to date. In our courses and meetings, experienced speakers from science and practice teach mastery of new materials and methods. Just like you, we continually refine our competence in materials and technology and match it to current needs in everyday practice work.

Today, aesthetics and durability are just as much in focus as economic processing. Our response is new development and advancement of proven systems. Being very conscious of the key factors of your daily challenges, we think in concepts to accompany and facilitate your operational procedures. Take our broad range of impression materials for example.

Our A-silicone Variotime, for example, features a variable time concept which provides more leeway with starting the setting time. This gives you greater handling freedom. And you have one material to cover variable applications. Variotime combines outstanding performance and features with more than 25 years of Heraeus Kulzer experience in VPS precision impression materials. The Optosil/Xantopren product assortment is proven in practice since many years and has set the standard for silicone precision impression early on. The state-of-the-art C-silicones enable precise reproduction of detail and are available in different versions tailor-made for your professional demands. Alginoplast, our firm, edge sharp alginate with high stability, features high accuracy of detail, elasticity as well as tensile strength and is very compatible with gypsum. We chose high-quality seaweed from selected growing areas as the basis of our alginate impression materials.

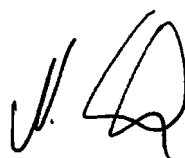
Do also have a look at our composites from the Charisma family. Easy handling, reliability, and natural aesthetics are what you relate with the Charisma-brand. That is why it has been used every day for over twenty years – in millions of fillings – by practitioners around the world. Charisma Diamond expands the boundaries of aesthetics, quality and performance. Thanks to the innovative formula it provides all the exceptional properties you expect from such an aesthetic state-of-the-art composite. With easy handling, reliability and natural aesthetics through fluorescence and opalescence effects, Charisma Opal enables the creation of beautiful, invisible restorations. Charisma Classic is ideal for easy single-shade layering techniques. The Microglass II effect provides convenient shade selection and match. Its creamy consistency allows for easy and fast modelling. The flowable composite Charisma Opal Flow, with a very good controllable viscosity, diagnosis-safe radiopacity and superior mechanical properties, is the ideal addition to the Charisma composites.

There are no satisfactory restorations without powerful bonding systems. GLUMA products have been supplied to dentists all over the world. With a wide range of reliable and highly effective adhesives, our customers enjoy the benefits of direct and indirect restorations. Furthermore, modern GLUMA products contain the unique and well-known desensitizing effect. It reduces or prevents post-operative sensitivity after the preparation or restoration of teeth.

With the SOPIRA system we offer the right anaesthesia solution for all relevant indications, from the syringe to the

dental needle. Our dental syringes have been setting standards from the very beginning when it comes to precision, function and design. SOPIRA Carpule needles ensure an extra gentle injection.

Reaching our goals together: your craftsmanship and our reliable materials ensure precisely fitting restorations. In this catalogue, we provide you with a broad selection of dental materials to support you in your work. Because we are convinced: oral health belongs in the best hands.



Yours sincerely  
Novica Savic  
Head of Division Dental Materials  
Heraeus Kulzer



# PRODUCTS BY CATEGORIE

## PRAXIS



### Preventive Materials

#### Desensitizer

- GLUMA Desensitizer

### Pain Control

#### Infiltration and Conduction Anaesthesia

- SOPIRA Carpule Needles
- SOPIRA Carpule Syringes

#### Intraligamentary Anaesthesia

- SOPIRA Carpule Needles for Intraligamentary Anaesthesia
- SOPIRA Carpule Needles for Intraligamentary Anaesthesia

### Restorative Materials

#### Filling Materials

- Charisma Diamond
- Charisma Opal
- Charisma Classic
- Charisma Smart
- Charisma Opal Flow
- Charisma Flow
- Durafill VS
- Solitaire 2

#### Adhesives

- GLUMA Self Etch
- GLUMA 2Bond
- GLUMA Bond5
- GLUMA Etch

#### Accessories & LED Curing Lights

- Translux 2Wave
- Translux Wave
- Charisma EasyShine
- Diamond Burrs
- Ivory Rubber Dams & Clamps

### Prosthetics

#### A-Silicone VPS Precision Impression Materials

- Variotime
- Provil novo

#### C-Silicone Precision Impression Materials

- Optosil & Xantopren

#### Alginate & Alginate Substitute Impression Materials

- Alginoplast
- Xantalgin
- xantasil

#### Bite Registration & Special Indications

- MEMOREG 2
- MEMOSIL 2

#### Dental Devices

- Dynamix Speed

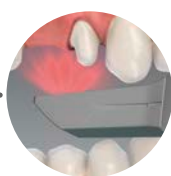
#### Cements & Luting Materials

- iCEM Self Adhesive
- Carboxylate Cement
- Phosphate Cement

#### Temporary Materials

- PreVISION Cem
- Dentalon plus

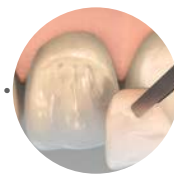
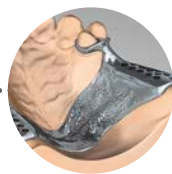




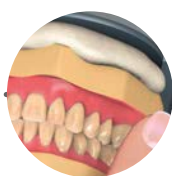
X-Ray Materials	CAD/CAM	Laboratory Product Line
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# PRODUCTS BY CATEGORY

## LABORATORY



Work Preparation	Crown- and Bridgework	Cast Partial Denture System	Ceramics	Veneering Composites
<b>Dental Plasters</b> <ul style="list-style-type: none"> <li>– Dental Plasters Type 2</li> <li>– Dental Plasters Type 3</li> <li>– Dental Plasters Type 4</li> <li>– Special plasters</li> </ul> <b>Futher Materials for Modelling</b> <ul style="list-style-type: none"> <li>– Silicone Surfactant SWE 2000</li> <li>– Splitcast System &amp; Insolation</li> <li>– Pins</li> <li>– Blocking out material</li> </ul>	<b>Dental Alloys</b> <ul style="list-style-type: none"> <li>– Non Precious Metal Alloys</li> <li>– Wires, solders and special materials</li> <li>– Ceramic Bonding Alloys</li> <li>– Universal Alloys</li> <li>– Gold Content Casting Alloys</li> </ul> <b>Precision Attachments</b> <ul style="list-style-type: none"> <li>– T-Attachments</li> <li>– Locks</li> <li>– Anchor Systems &amp; Retainers</li> <li>– Root posts</li> <li>– Other precision attachments</li> </ul> <b>Preciano Electroforming</b> <ul style="list-style-type: none"> <li>– Preciano iQ</li> <li>– Preciano Gold Solution</li> <li>– Preciano Cunsumables</li> </ul> <b>Investments Crowns- and Bridges</b> <ul style="list-style-type: none"> <li>– Speed Heating</li> <li>– Programm controlled</li> <li>– Solder Investment</li> </ul> <b>Casting Machines &amp; Accessories</b> <ul style="list-style-type: none"> <li>– Heracast iQ</li> <li>– Heracast EC</li> <li>– Accessories for casting machines</li> </ul> <b>Cast Treament &amp; Soldering</b> <ul style="list-style-type: none"> <li>– Consumables</li> <li>– Abrasive Material</li> <li>– Etching Materials and Flux</li> </ul>	<b>Duplicating</b> <ul style="list-style-type: none"> <li>– Vario Duplicating Flask</li> <li>– Duplicating silicone</li> </ul> <b>KF Partial Denture-casting Wax</b> <b>Investments</b> <ul style="list-style-type: none"> <li>– Speed Heating</li> <li>– Programm controlled</li> </ul> <b>Investment for Partial Denture System</b> <ul style="list-style-type: none"> <li>– Speed</li> <li>– Programm controlled</li> </ul> <b>Partial Denture Casting Alloys</b> <ul style="list-style-type: none"> <li>– Non Precious Metal Alloys</li> <li>– Precious Metal Alloys</li> <li>– Wires, Solders for partial denture casting alloys</li> </ul> <b>Casting Machines &amp; Accessories</b> <ul style="list-style-type: none"> <li>– HeraCast iQ</li> <li>– Heracast EC</li> <li>– Accessories for casting machines</li> </ul>	<b>Veneering Ceramics</b> <ul style="list-style-type: none"> <li>– HeraCeram</li> <li>– HeraCeram Zirkonia</li> <li>– HeraCeram Zirkonia 750</li> </ul> <b>Pressable Ceramics</b> <ul style="list-style-type: none"> <li>– HeraCeram Press</li> </ul> <b>Stains</b> <ul style="list-style-type: none"> <li>– HeraCeram Stains universal</li> </ul> <b>Non-Precious Metal Bonder</b> <ul style="list-style-type: none"> <li>– HeraCeram NP-Primer</li> <li>– HeraCeram Pre-opaque</li> </ul> <b>Accessories for Veneering Ceramics</b> <ul style="list-style-type: none"> <li>– Liquids</li> <li>– Brushes</li> <li>– Shade Guides</li> <li>– Tray</li> </ul> <b>Accessories for Pressable Ceramics</b> <ul style="list-style-type: none"> <li>– Investment Compound for Pressable Ceramics</li> <li>– Disposable press plunger</li> <li>– Investment ring set</li> <li>– Austromat 624</li> <li>– Austromat 654 press-i-dent</li> </ul>	<b>Metal-supported Veneering</b> <ul style="list-style-type: none"> <li>– Signum composite</li> <li>– Signum composite flow</li> <li>– Signum cre-active</li> <li>– Signum matrix</li> </ul> <b>Metal-free Veneering</b> <ul style="list-style-type: none"> <li>– Signum ceramis</li> <li>– Signum cre-active</li> <li>– Signum matrix</li> </ul> <b>Bonding Agents</b> <ul style="list-style-type: none"> <li>– Signum ceramic bond</li> <li>– Signum metal bond</li> <li>– Signum zirconia bond</li> </ul> <b>Light Polymerization Devices</b> <ul style="list-style-type: none"> <li>– HiLite power</li> <li>– HiLite pre 2</li> </ul> <b>Accessories Veneering Composites</b> <ul style="list-style-type: none"> <li>– Signum connector</li> <li>– Signum HP diamond</li> <li>– Signum HP paste</li> <li>– Signum insulating gel</li> <li>– Signum insulating pen</li> <li>– Signum liquid</li> <li>– Signum toolkit/ Instruments</li> </ul>



Denture Teeth	Denture Materials	CAD/CAM	Laboratory Devices and Equipment
<b>Pala Mix &amp; Match</b>  <b>PalaVeneer</b> – Pala Premium – Pala Idealis – Pala Mondial  <b>Classic</b>  <b>Basic</b>  <b>Accessories Teeth</b> – Pala Mix & Match Shade Guide – Tooth Cabinets	<b>Cold Curing Denture Acrylics</b> – PalaXpress ultra – PalaXpress – Palapress – Palapress vario – Paladur – Meliodent RR  <b>Heat Curing Denture Acrylics</b> – Paladon ultra – Paladon 65 – Meliodent Heat Cure – Paladent 20  <b>Tray and Model Acrylics</b> – Palatry XL – Palavit L – Palavit G – Palavit M  <b>Tooth-coloured Acrylic</b> – Palavit 55 VS – PalaVeneer Dentine  <b>Characterization</b> – Pala cre-active  <b>Finishing</b> – Palaseal – Palaclean  <b>Denture Manufacturing</b> – Aislar – Palabond  <b>Equipment for Denture Manufacturing</b> – Contact A – Palamat elite – Palajet  <b>Accessories Denture Materials</b> – Pala Shade Guide – PalaMeter – PalaBox – Further Accessories for Denture Materials	<b>cara Production Service</b>  <b>Implant Prosthetics</b>  <b>Crown and Bridges Prosthetics</b>  <b>cara Hardware and Software</b>	<b>Casting Machines</b> – Heracast iQ – Heracast EC – Accessories for casting machines  <b>Electroforming Unit</b> – Preciano iQ  <b>Injection Unit</b> – Palajet  <b>Polymerization Units</b> – Palamat elite – HiLite power – HiLite pre 2  <b>Ceramic furnace</b> – Austromat 624 – Austromat 654 press-i-dent

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# 1 SERVICES

## 1.1 YOUR CONTACT TO HERAEUS KULZER




### COSTUMER SERVICE CENTER

## WE ARE THERE FOR YOU – YOUR DIRECT LINE TO US

Want to know more about our equipment, materials and services?

Have questions about the availability of our products in your region?

The experienced staff at our Customer Centre in Hanau will give you expert personal advice.

Country	Name	Temporary replacement
TEAM WESTERN EUROPE		
BENELUX	 <b>Wiltrud Felten</b> Group Manager	Benjamin Kerber (Group Manager) Oliver Kunze (Benelux) Stefanie Müller
SPAIN UNITED KINGDOM IRELAND PORTUGAL	 <b>Stefanie Müller</b>	Daniela Buchholz
FRANCE FRENCH OVERSEAS TERRITORIES	 <b>Marissa Meiss</b>	Patrizia Delle Grazie
NETHERLANDS REST OF WESTERN EUROPE	 <b>Oliver Kunze</b>	Wiltrud Felten
ESTONIA LATVIA LITHUANIA	 <b>Daniela Buchholz</b>	Stefanie Müller
DENMARK FINLAND ICELAND SWEDEN NORWAY CARA	 <b>Matthias Ebel</b>	Melanie Sauer
ITALY CARA	 <b>Patrizia Delle Grazie</b>	Matthias Ebel Marissa Meiss
AUSTRIA SWITZERLAND GREECE CYPRUS CARA	 <b>Melanie Sauer</b>	Matthias Ebel

Country	Name	Temporary replacement
TEAM EASTERN EUROPE		
	 <b>Benjamin Kerber</b> Group Manager	Wiltrud Felten Group Manager
AZERBAIJAN, POLAND SLOVAKIA, UKRAINE TURKEY, KAZAKHSTAN BELARUS, ARMENIA	 <b>Sascha Burkhardt</b>	Michaela Eppl Melanie Sauer
CZECH REPUBLIC HUNGARY RUSSIA BULGARIA	 <b>Michaela Eppl</b>	Sascha Burkhardt Melanie Sauer
CROATIA, SERBIA, SLOVENIA BOSNIA-HERZEGOVINA ALBANIA, MAZEDONIA GEORGIA, MOLDAVIA ROMANIA, KOSOVO	 <b>Michael Krah</b>	Michaela Eppl Sascha Burkhardt
TEAM ASIA-PACIFIC, AMERICAS, AFRICA		
CHINA	 <b>Benjamin Kerber</b> Group Manager	Nihal Cagiran
JAPAN	 <b>Michael Eschmann</b>	Petra Scheidemantel
THAILAND, SINGAPORE SOUTH KOREA, MALAYSIA TAIWAN, PHILIPPINES PAKISTAN, INDIA	 <b>Carmen Jost</b>	Lourdes Alvarez-Campos
MIDDLE EAST VAE	 <b>Marcus Noss</b>	Ulrike Malth
AUSTRALIA, AFRICA IRAN, NEW ZEALAND INDONESIA, VIETNAM ISRAEL, MALTA, EGYPT	 <b>Petra Scheidemantel</b>	Michael Eschmann
CENTRAL AMERICA SOUTH AMERICA BRASIL MEXICO	 <b>Lourdes Alvarez Campos</b>	Carmen Jost
USA CANADA	 <b>Ulrike Malth</b>	Marcus Noss

## MODERN, UP TO DATE AND CLEAR: HERAEUS KULZER LAUNCHES ITS NEW INTERNATIONAL WEBSITE

Heraeus Kulzer's new international, English-language website has gone online, with a modern look, easy navigation and new features.

One outstanding feature is the product search by "Indications", which quickly gives visitors an overview of Heraeus Kulzer's product range. On the product pages, visitors will now find a clear presentation of the most important and up to date information on each product

in a central location. With the design of the new site, Heraeus Kulzer is aiming to improve user friendliness and the experience when visiting. Heraeus Kulzer has modernised the site's appearance and adapted it to the fresh layout of the new Corporate Design. The page is now lighter and cleaner, with a streamlined structure and simplified navigation. Best of all, visitors reach the information they want with just a few clicks.

### PRODUCTS BY INDICATIONS AND BRANDS

An important new feature is product navigation by "Indications" (Dentist section) or "Application" (Dental Technology section). Selecting the indication "Tooth Preservation", for example, will lead to filling materials, adhesives and accessories for tooth preservation. The user will get a better overview of the variety of Heraeus Kulzer's products and quickly find the right solutions for the practice or laboratory.

On the product subpages, visitors will now find a clear presentation of the most important and up to date information on each product in a central location. Users have various ways of interacting with Heraeus Kulzer to make direct contact, such as contact forms, e-mail links and service hotlines. In the next step, Heraeus Kulzer will roll out the new content, features and the design on all country websites around the world.





## HERAEUS KULZER'S YOUTUBE CHANNEL ACTION!

A picture is worth a thousand words, as they say. A video puts pictures in motion and conveys information in a compact, easily accessible way. That's why Heraeus Kulzer is now providing dentists and dental technicians with interesting news about products, services and research results on its own YouTube channel.

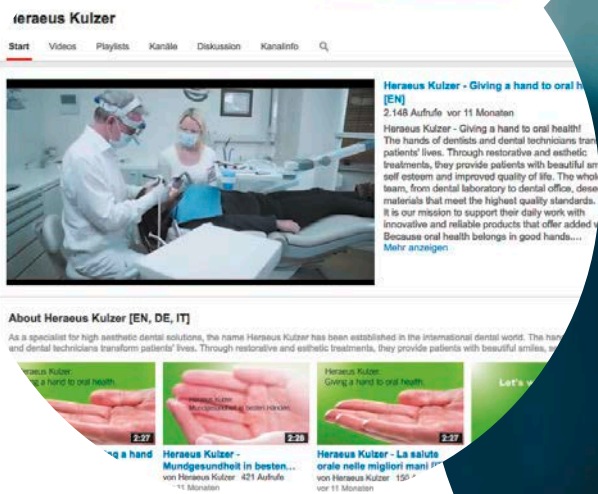
Dentists and dental technicians are facing increasingly complex challenges for restorative and aesthetic care, which is why Heraeus Kulzer works not only on developing products that make daily work easier for dentists and dental technicians. The company also provides its customers with extensive materials on product usage as well as background information.

### TO THE POINT

Users can find practical information on Heraeus Kulzer's YouTube channel. The information is compiled and presented in an easily understandable way in the more than 100 videos available online. In addition to practical tips and tricks about the products and their usage, they also provide background information on the manufacturing process. You can find videos on topics such as new materials and their application, presented clearly with real patient cases. Heraeus Kulzer places great importance on scientific rigour. Beyond the results of studies, interested users can also find interesting facts about research at Heraeus Kulzer on the channel.

### ALWAYS UP TO DATE

If you register at the free Heraeus Kulzer YouTube channel, you'll receive regular news about the products, innovations and current studies. Each new video is announced to the subscriber on request. Registered users can also leave comments and ratings.



## RELIABLE PROTECTION AGAINST HYPERSENSITIVITY.

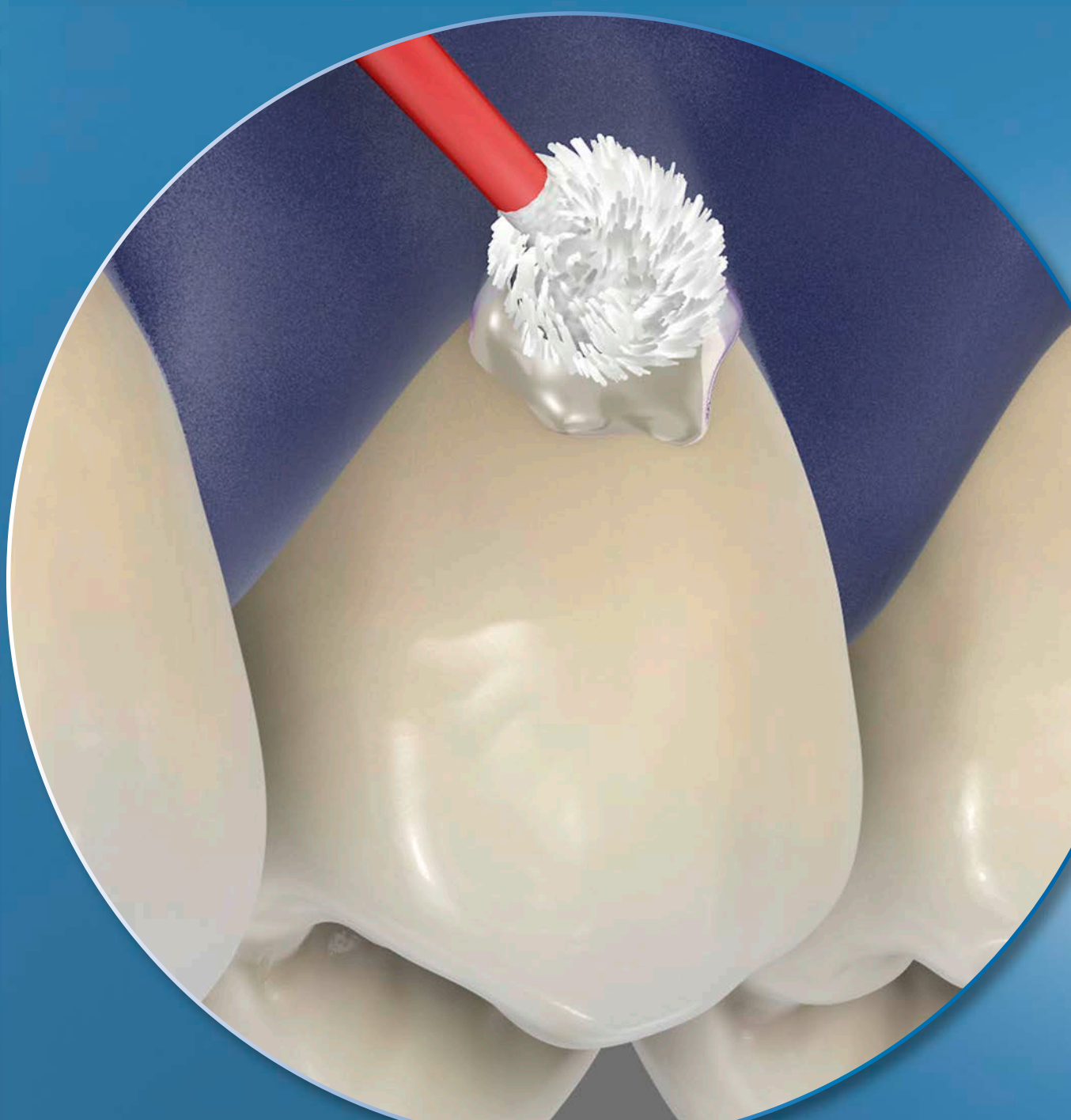
Preventive also encompasses prevention of hypersensitivity. Because it often considerably impairs the patient's well-being. Desensitisation measures protect the teeth from hypersensitivity and your patients from pain. Use Gluma® during every restoration – whether direct or indirect – to give your patients the comfort they wish for.

## 2 Preventive Materials

18–23

2.1 Desensitizer  
GLUMA Desensitizer

18  
22



## DESENSITIZER

### OUR TESTED SOLUTION AGAINST HYPERSENSITIVE TEETH.

Preventive also encompasses prevention of hypersensitivity. Because it often considerably impairs the patient's well-being. Desensitisation measures protect the teeth from hypersensitivity and your patients from pain. Use Gluma during every restoration – whether direct or indirect – to give your patients the comfort they wish for.

Hypersensitivity of the teeth is one of the factors that has the greatest influence on patient wellness. Whether sweet or sour, hot or cold - the acute pain is extremely unpleasant. Your patients will be delighted that you have relieved them of this discomfort. Our GLUMA Desensitizer has everything you need to reduce and prevent hypersensitivity. The results appear quickly and effectively, without mixing, curing or multiple applications. Your patients feel immediate relief.

# Heraeus Kulzer

Mitsui Chemicals Group

## GLUMA®



Giving a hand to oral health.



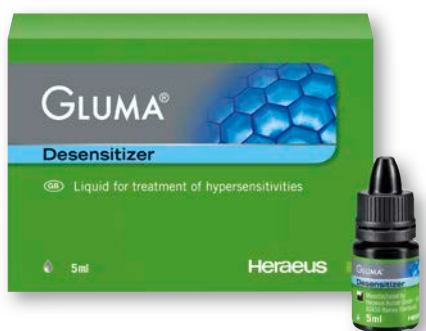
## GLUMA® DESENSITIZER – GAINING VICTORY OVER PAIN.

For over 20 years, one drop of GLUMA has been sufficient to reduce and prevent hypersensitivity. The results appear quickly and effectively, without mixing, curing or multiple applications. Your patients feel immediate relief. Every good restoration starts with the GLUMA Desensitizer. Its efficacy has been proven in over 50 million restorations. It can be used with all common adhesives and restoration materials and in every treatment situation. GLUMA neither needs to be stirred or light cured. This simplifies application and saves time.

- **Desensitise:** GLUMA is the only desensitise that has been proven to penetrate exposed dentinal tubules up to 200 µm. This leads to the formation of multilayered protein walls which prevent an osmotic fluid exchange with the internal tubules.
- **Block bacteria:** GLUMA forms a hermetic seal which traps the bacteria and prevents bacterial growth.
- **Re-wetting:** GLUMA reorganises collapsed collagen fibres and thus improves the adhesiveness of several adhesives.

#### Indications

- For the reduction or elimination of pain in exposed cervical areas that do not require restoration and the reduction or elimination of dentine sensitivity after preparation of teeth to receive a fixed prosthesis.



## PRODUCT OUTLINE

### GLUMA DESENSITIZER

#### Desensitizer

##### Contents

1 x 5 ml bottle,  
pictorial card

##### Art. code

6600 3764

**REALITY**  
Five Star Award





## GLUMA® Desensitizer – Easily applied – widely applicable.

### How it works

#### Desensitises:

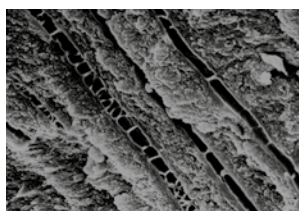
GLUMA is the only desensitiser proven to penetrate exposed dentinal tubuli up to 200 µm. The result is the formation of multiple layers of protein septa that prevent intertubular fluid movements due to osmotic changes.

#### Inhibits bacteria:

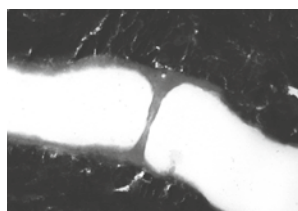
GLUMA provides a hermetic seal that acts as a microbial barrier, inhibiting bacterial growth.

#### Re-wet:

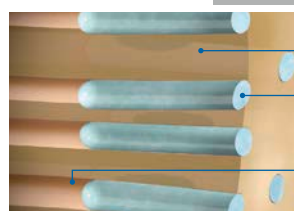
GLUMA resurrects collapsed collagenous fibres, improving the bond strength of many adhesives.



SEM of GLUMA-induced septa in dentinal tubuli.



SEM magnification of a single GLUMA-induced septum in dentinal tube.



Schematic representation of effect.

### Indications:

For the reduction or elimination of pain caused by hypersensitivity in exposed cervical areas that do not require restorations, and of dentine sensitivity after preparation of teeth to receive fixed prosthesis or restorations.

### Specific use for doctors and hygienists

#### Doctor/Assistant – Under every restoration

Use GLUMA below every restoration – direct and indirect – to ensure your patients the comfort they deserve.

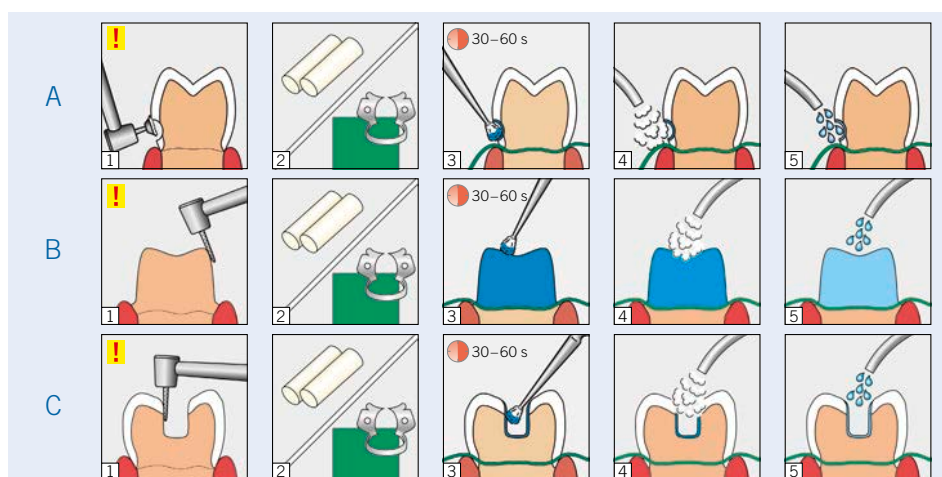
- Below crowns
- Bridges
- Inlays and onlays
- Veneers and temporaries
- Margins around temporary crowns
- Below all direct restorations

#### Dental hygienist – Spot desensitise

With the confidence of GLUMA, your patients will appreciate the fast, effective and long-term results for a more comfortable prophyl.

- Cervical erosions
- Exposed dentine surface
- Tooth hypersensitivity caused by gingival recession

### Application guide GLUMA Desensitizer



PAIN INFLUENCES THE QUALITY OF LIFE – BECAUSE IT AFFECTS THE WHOLE ORGANISM, THE BODY AND ALSO EMOTIONS AND BEHAVIOUR.

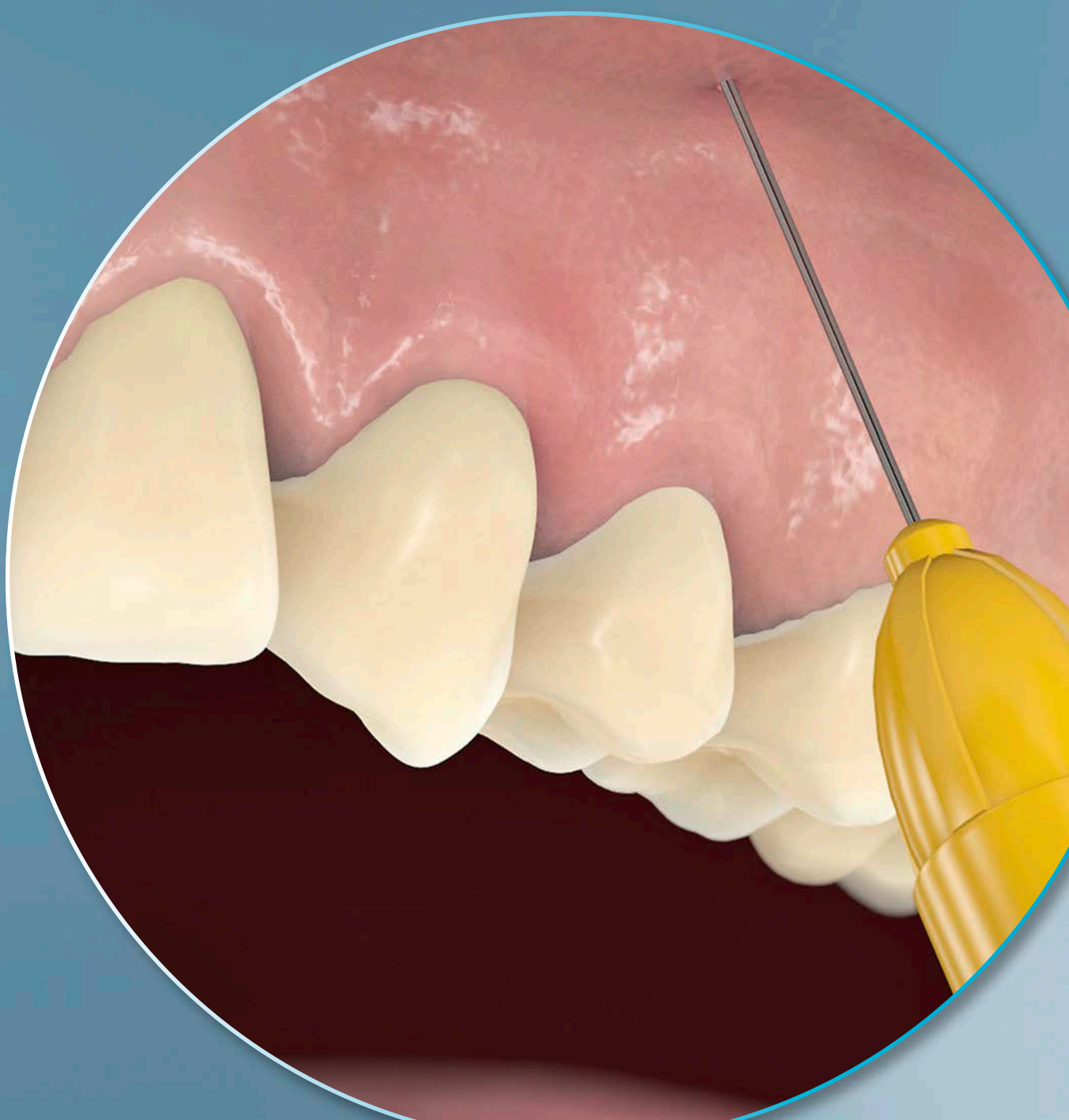
For many patients, the topic of pain plays a central role when visiting the dentist. Your treatment success is measured, among other factors, by how effective the anaesthesia is. Our long-standing expertise in this field gives you the sense of confidence you need in your daily work. We offer you products you can rely on – because we developed them based on a wealth of experience.

<b>3</b>	<b>Pain Control</b>	<b>24 – 30</b>
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# Heraeus Kulzer

Mitsui Chemicals Group

SOPIRA®



## SOPIRA® —

### YOUR LOCAL ANAESTHESIA SUPPLIER.

Each day at your surgery, your success is measured on the basis of the professional and personalised treatment of your patients – and whether or not your anaesthesia is effective. For this reason, you need a system on which you can always rely. Our SOPIRA brand stands for a reliable, all-in-one local anaesthesia solution. By choosing SOPIRA, you will be able to accommodate all the necessary indications. There's no easier way. Our long-standing expertise in this field also gives you the sense of confidence you need for the treatment.

Our experts handle your local anaesthesia the right way.



Giving a hand to oral health.

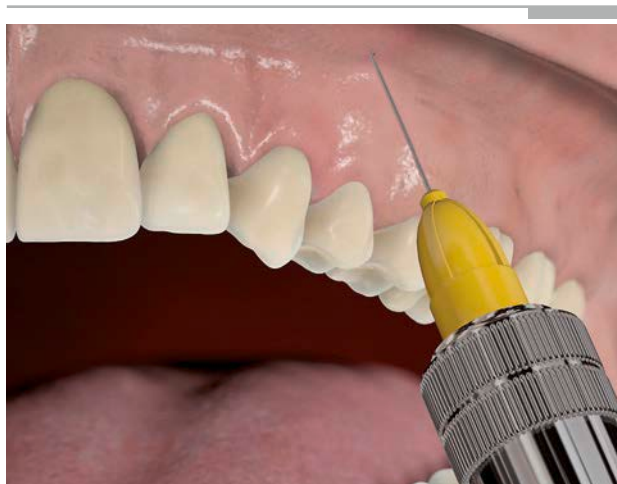


## SOPIRA® CARPULE® NEEDLES — THE RIGHT NEEDLE FOR ANY INDICATION.

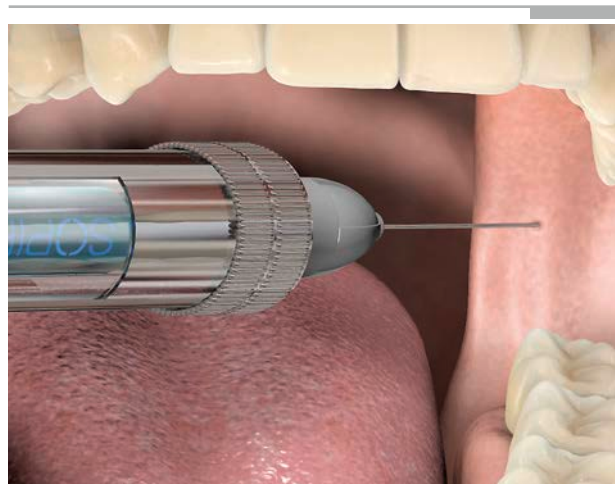
The best injection is the one your patient cannot feel. Our tissue-friendly needles are characterised by first-class steel and an innovative cut. They offer both dentist and patient the ideal conditions for agreeable and comfortable treatment.

#### Experience the ease of a gentle injection – your benefits at a glance

- Less initial pain due to the triple-bevel cut
- Silicone coating ensures optimal penetration of tissue
- Safe handling thanks to high elasticity
- A variety of models to accommodate your surgery's every need: in an extra short cut, especially for intraligamentary anaesthesia.
- Compatible with all common dental syringes.



Infiltrative/intraseptal



Mandibular



## PRODUCT OUTLINE

Product	Bevel	Hub colour	Diameter outside	Injection part length	Indication	Art. code
SOPIRA Carpule Needles with metric thread						
SOPIRA Carpule Needles Regio Metric 30G 12 mm	short	yellow	0,3 mm	12 mm	Intraligamentalis	6601 4421
SOPIRA Carpule Needles Regio Metric 30G 16 mm	short	yellow	0,3 mm	16 mm	Intraligamentalis	6601 4410
SOPIRA Carpule Needles Regio Metric 30G 21 mm	long	yellow	0,3 mm	21 mm	Infiltration	6601 4409
SOPIRA Carpule Needles Regio Metric 30G 25 mm	long	yellow	0,3 mm	25 mm	Infiltration	6601 5583
SOPIRA Carpule Needles Regio Metric 27G 25 mm	long	grey	0,4 mm	25 mm	Infiltration	6601 4407
SOPIRA Carpule Needles Regio Metric 27G 38 mm	long	grey	0,4 mm	38 mm	Mandibularis	6601 4408
SOPIRA Carpule Needles with inch thread						
SOPIRA Carpule Needles Regio Inch 30G 12 mm	short	yellow	0,3 mm	12 mm	Intraligamentalis	66014426
SOPIRA Carpule Needles Regio Inch 30G 16 mm	short	yellow	0,3 mm	16 mm	Infiltration	6601 4425
SOPIRA Carpule Needles Regio Inch 30G 21 mm	long	grey	0,4 mm	21 mm	Infiltration	6601 4424
SOPIRA Carpule Needles Regio Inch 27G 38 mm	long	yellow	0,4 mm	38 mm	Mandibularis	6602 0505



## SOPIRA® CARPULE® SYRINGES – PRECISION FOR INFILTRATION AND NERVE BLOCK ANAESTHESIA.

The solid SOPIRA Carpule syringe can be used in a variety of ways and offers you tried-and-tested stability as well as dependable handling – whether for infiltration or nerve block anaesthesia, whether in the maxilla or mandible.

#### Your benefits at a glance

- Cylinder cartridge syringe for nerve block and infiltration anaesthesia.
- Double-ring design for secure handling.
- Sterilisable.
- Available as a non-aspirating syringe, for example for application of ointments and pastes or aspirating syringe with double ring detent for active aspiration.

#### Indication

- infiltrative
- intraseptal
- mandibular

Available as **ASPIRATING** and **NON-ASPIRATING** models



## PRODUCT OUTLINE

### SOPIRA CARPULE

#### Non-Aspirating Syringe

##### Contents

1.8 ml/metric

Art. code 6511 1760



#### Aspirating Syringe

##### Contents

1.8 ml/metric

Art. code 6534 7466



#### Aspirating Syringe

##### Contents

1.8 ml/inch

Art. code 6600 2422



## 3.2 INTRALIGAMENTARY ANAESTHESIA

## SOPIRA CARPULE NEEDLES

SOPIRA®

SOPIRA® CARPULE® NEEDLES FOR INTRALIGAMENTARY ANAESTHESIA –  
EVERYTHING YOU NEED FOR A PRIMARY METHOD.

Intraligamentary anaesthesia (ILA) offers patients a very comfortable alternative. This method covers the anaesthesia requirement across many indications. By injecting the active ingredient directly into the periodontal ligament, it is possible to achieve an immediate and complete anaesthetisation of the single tooth.

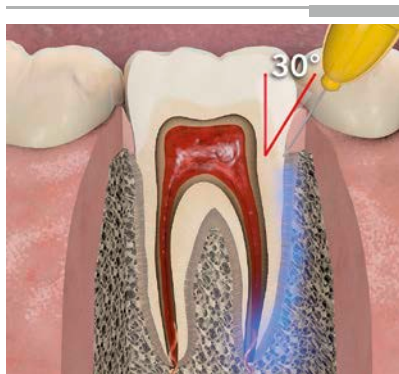
The pain of injection is minimised and the cardiovascular system is also spared unnecessary stress. The SOPIRA Citoject syringes and short bevel SOPIRA Carpule needles match each other perfectly.

Intraligamentary anaesthesia allows you to treat teeth in different quadrants in one sitting. The required quantity of anaesthetic is significantly reduced and patients feel no numbness in the lips, tongue and cheeks.

Reap all of the benefits of intraligamentary anaesthesia with our all-in-one solution and the one-of-a-kind concept for dental injection needles. They unite all the benefits of the Carpule needles - and the short bevel makes the injection even gentler.

**Experience the ease of a gentle injection - your benefits at a glance:**

- Needles with extra-short bevel, preventing the needle tip from bending in the desmodontal space and reducing the risk of injury
- Less initial pain due to the triple-bevel cut
- Silicone coating ensures optimal penetration of tissue



Intraligamentary injection: injection angle 10–30°



SOPIRA Carpule needles: long bevel (left), short bevel (right)

## PRODUCT OUTLINE

Product	Recommended Use	Art. code
SOPIRA® Carpule Needles with metric thread		
SOPIRA® Carpule Needles Regio Metric 30G 12 mm, short bevel	Intraligamentalis	6601 4421
SOPIRA® Carpule Needles Regio Metric 30G 16 mm, short bevel	Intraligamentalis	6601 4410
SOPIRA® Carpule Needles with inch thread		
SOPIRA® Carpule Needles Regio Inch 30G 12 mm, short bevel	Intraligamentalis	6601 4426
SOPIRA® Carpule Needles Regio Inch 30G 16 mm, short bevel	Intraligamentalis	6601 4425

## SOPIRA® CITOJECT® SYRINGES—

IT'S A GOOD FEELING TO KNOW YOU OFFER OPTIMISED CARE.

#### **SOPIRA Citoject syringe for intraligamentary anaesthesia injections with pinpoint precision.**

SOPIRA Citoject makes intraligamentary injections even easier for you and more comfortable for your patients – an outstanding innovative design available in stainless steel or light alloy.

#### **It's a good feeling to know you offer optimised care:**

- Balanced weight distribution for stable handling and precision.
- The integrated plastic sleeve offers added safety.
- The stainless steel models can be thoroughly cleaned and sterilised along with all other stainless steel instruments used in your surgery.
- The ultimate in quality and durability thanks to a one-year warranty for Citoject products.
- Unparalleled control for injection: just 0.06 ml of anaesthetic at the press of the lever.
- Available in stainless steel or light alloy, with straight or angled headpiece, and for 1.8 ml or 2.2 ml glass cartridges.

Choose from our range of different sets or put together your own, custom model in combination with our accessories.

#### **Indication**

- Intraligamentary anaesthesia.



## PRODUCT OUTLINE

### SOPIRA CITOJECT ASSORTMENT LIGHT ALLOY

#### Set – Pointed Plunger

Contents	
1 SOPIRA Citoject syringe set, 1.8 ml/metric	
Art. code	6542 9094

#### Set – Flat Plunger

Contents	
1 SOPIRA Citoject syringe set, 1.8 ml/metric	6600 5326
1 SOPIRA Citoject syringe set, 1.8 ml/inch	6600 2392
1 SOPIRA Citoject syringe set, 2.2 ml/inch	6600 2395



### SOPIRA CITOJECT ASSORTMENT STAINLESS STEEL

#### Pointed Plunger

Contents	
1 SOPIRA Citoject syringe set, 1.8 ml/metric	
Art. code	6600 9001



### SOPIRA CITOJECT ACCESSORIES STAINLESS STEEL

#### Barrel

Contents	Art. code
1.8 ml/metric barrel angled	6600 5419

### SOPIRA CITOJECT OTHERS

#### Plungers

Contents	Art. code
1.8 ml pointed plunger	6603 8610
1.8 ml flat plunger	6603 8672
2.2 ml flat plunger	6603 8673

#### Plastic sleeves

Contents	Art. code
1.8 ml plastic sleeve	6600 5419
2.2 ml plastic sleeve	6600 6866

### SOPIRA CITOJECT ACCESSORIES LIGHT ALLOY

#### Barrel

Contents	
1.8 ml/metric barrel angled	6542 9051
1.8 ml/metric barrel straight	6542 9108
1.8 ml/inch barrel angled	6600 2394
1.8 ml/inch barrel straight	6600 2393
2.2 ml/inch barrel angled	6600 2397
2.2 ml/inch barrel straight	6600 2396

## SYSTEMATIC TOOTH PRESERVATION – WITH A GREAT DEAL OF EXPERIENCE.

The natural tooth is always better than any dental prosthesis. That's why it's worth fighting for. In tooth preservation, we support you with products you can always rely on. And always meet your patients' aesthetic demands. From innovative filling materials and excellent adhesive systems, up to the appropriate accessories – we offer you everything that you need for high quality, durable restorations with perfect aesthetics. See for yourself.

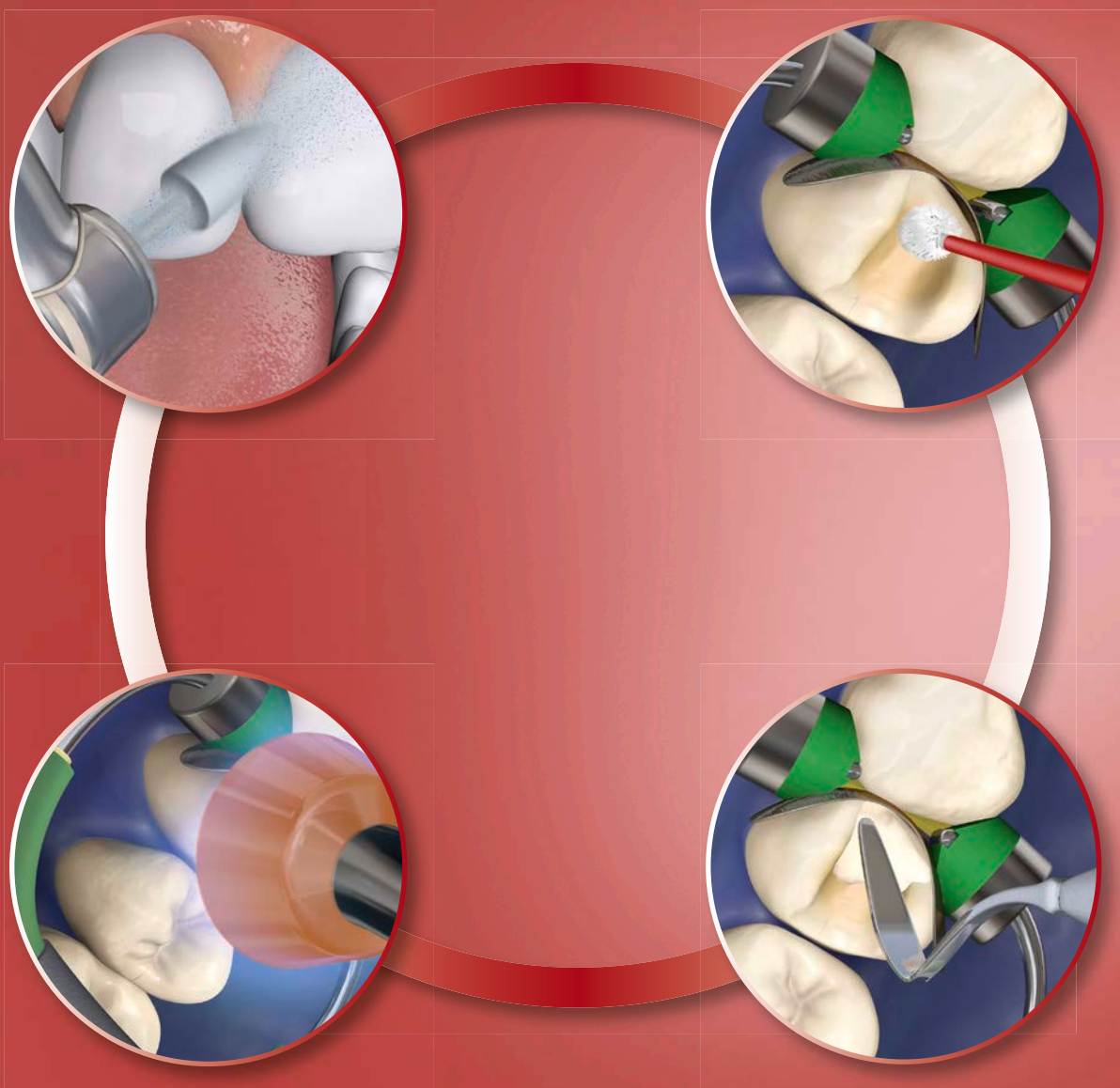
### 4 Restorative Materials

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	Ivory Rubber Dams & Clamps	64



## RESTORATIVE MATERIALS



### FILLING MATERIALS

#### OUR STANDARD FOR YOUR RESTORATIONS: TOP AESTHETICS AND DURABILITY.

The composites from Heraeus stand for aesthetic, natural and durable restorations. Because you are measured by these results. Beautiful, impeccable teeth are the basis upon which appearances are judged by many patients. That is why we provide you with composites from which you can choose according to your personal preference and the indication.

We have the right composite for you for every situation. After all, our products are based on decades of knowledge and experience in development.



**CHARISMA®**



Giving a hand to oral health.

## 4 RESTORATIVE MATERIALS

### 4.1 FILLING MATERIALS

#### CHARISMA DIAMOND

## CHARISMA® DIAMOND – DISCOVER THE NEXT DIMENSION OF NATURAL BEAUTY.

The nano-hybrid composite Charisma Diamond expands the boundaries of aesthetics, quality and performance. Thanks to the innovative formula it provides all the exceptional properties you expect from such an aesthetic state-of-the-art composite.

#### The Charisma Diamond chemistry:

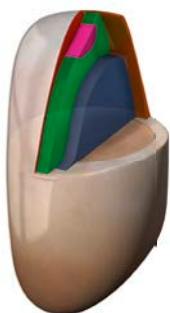
A patented matrix and newly developed nano-hybrid filler system result in improved aesthetics, durability and handling. This means minimum shrinkage and shrinkage stress, very smooth surface, high resilience and optimised surface hardness.

#### The Charisma Diamond versatility:

Charisma Diamond adapts to the colour of the surrounding tooth structure for an outstandingly natural look. What's more, the Charisma Diamond layering technique is a distinct aesthetic advantage and ensures virtually undetectable restorative margins. You easily achieve very good results with single shade technique for simple cases and excellent results using the multi-layer technique.

#### The Charisma Diamond workability:

Charisma Diamond offers minimal stickiness and improved efficiency during sculpting. It also provides an extended working time even if illuminated by operating light. Ultra-fine filler particles create a polish that is comparable to natural enamel.



Opaque Dentine		OB	OL	OM	OD	
Universal		BXL	BL	A1	A2	A3
				B1		A3.5
					C2	B3
					D3	C3
Incisal	Translucent					CL
						AM
	Opalescent					CO
						YO

■ Opaque dentine shade  
■ Universal shade

■ Incisal - translucent  
■ Incisal - opalescent

## PRODUCT OUTLINE

### CHARISMA DIAMOND SYRINGE ASSORTMENT

#### Syringe Intro Kit

##### Contents

1 x 4 g Syringes each of the shades:  
A2, A3, OM  
Intro Shade Guide

**Art. code** 6604 3863



#### Syringe Basic Kit

##### Contents

1 x 4 g Syringe each of the shades:  
2 x A2, A3, A3.5, OM, OD

**Art. code** 6604 3864



#### Syringe Master Kit

##### Contents

10 x 4 g Syringe each of the shades:  
A2, A3, A4, A3.5, B2, C2, OM,  
OD, CL, BL  
1 x 4 ml GLUMA 2Bond,  
2 x 2.5 ml GLUMA Etch 35 Gel,  
Shade Guide, Accessories

**Art. code** 6604 3881



### CHARISMA DIAMOND SYRINGE REFILLS

#### 1 x 4 g syringes

Shades	Art. code
<b>Universal shades</b>	
A1	6604 3882
A2	6604 3883
A3	6604 3884
A3.5	6604 3885
A4	6604 3886
B1	6604 3887
B2	6604 3888
B3	6604 3889
C2	6604 3890
C3	6604 3891
D3	6604 3892
<b>Opaque shades</b>	
OL	6604 3893
OM	6604 3894
OD	6604 3895
<b>Incisal shades</b>	
CL	6604 3899
AM	6604 3900
CO	6604 3901
YO	6604 3902
<b>Bleach shade</b>	
BL	6604 3896
BXL	6604 3897
OB	6604 3898

### CHARISMA DIAMOND SHADE GUIDE

#### 2-Layer shade guide

**Art. code** 6604 4554



### CHARISMA DIAMOND ACCESSORIES

#### Plasmacoat Instrument

##### Contents

Modern composite instrument in the form of a Heidemann spatula with special titanium nitride coating

**Art. code** 6504 0417



## CHARISMA® OPAL – DISCOVER THE SIMPLICITY OF NATURAL RESTORATIONS.

Charisma Opal enables the creation of beautiful, invisible restorations in a simple and usable manner. With its intrinsic colour characteristics mimicking natural tooth substance and its comprehensible shade system, Charisma Opal fulfills all wishes to provide your patients with the best treatment possible – in the least time possible.

**Beauty is easily achieved:** Charisma Opal provides natural fluorescence and opalescence effects as well as optimized opacities for naturally beautiful restorations. With Charisma Opal naturality and beauty are ready to hand.

**The shades are easily matched:** You profit from a compact shade system with 14 shades for every indication. And Charisma Opal provides a 2-layer shade guide which is hand-layered and made of original material to determine the right color for a filling. Shade matching has never been this easy and accurate!

**Its balanced attributes are easy to rely on:** The development of Charisma Opal is based on our long-term experience with Charisma. According to numerous research groups worldwide, Charisma Opal covers all demands of a universal composite system as it combines natural aesthetics and polishability with equilibrated physical properties.



## PRODUCT OUTLINE

### CHARISMA OPAL SYRINGE ASSORTMENT

#### Syringe Basic Kit + GLUMA 2Bond

##### Contents

1 x 4 g Syringes each of the shades:  
A2, A3, A3.5, B2, C0, OM  
1 x 4 ml GLUMA 2Bond,  
2 x 2.5 ml GLUMA Etch 35 Gel,  
Shade Guide, Accessories

**Art. code** 6605 5473



#### Syringe Master Kit + GLUMA 2Bond

##### Contents

1 x 4 g Syringes each of the shades:  
A1, A2, A3, A3.5, B2, C2, C0, OL,  
OM, OD  
1 x 4 ml GLUMA 2Bond,  
2 x 2.5 ml GLUMA Etch 35 Gel,  
Shade Guide, Accessories

**Art. code** 6605 5474



### CHARISMA OPAL SYRINGE REFILLS

#### 1 x 4 g syringes

Shades	Art. code
<b>Universal shades</b>	
A1	6603 7689
A2	6603 7690
A3	6603 7702
A3.5	6603 7701
A4	6603 7703
B1	6603 7704
B2	6603 7705
B3	6603 7706
C2	6603 7688
<b>Opaque shades</b>	
OL	6603 7684
OM	6603 7683
OD	6603 7685
<b>Incisal shade</b>	
C0	6603 7687
<b>Bleach shade</b>	
BL	6603 7686



### CHARISMA OPAL SHADE GUIDE

#### 2-Layer shade guide

**Art. code** 6603 7881



### CHARISMA OPAL ACCESSORIES

#### Plasmacoat Instrument

##### Contents

Modern composite instrument in the  
form of a Heidemann spatula with  
special titanium nitride coating

**Art. code** 6504 0417



## CHARISMA® CLASSIC –

EXPERIENCE X RESEARCH = MICROGLASS® II EFFECT.

Charisma Classic is the very first composite to offer the second generation of Microglass filler technology. We developed this new and enhanced technology in close cooperation with practitioners worldwide to meet your requirements for composite workability and natural brilliance. Single-shade layering techniques have never been this easy.

#### Microglass II effect –

What you see is what you get! As all refractive indices of our matrix and filler system have been optimally aligned, the new filler technology offers an intrinsic shade brilliance and increased colour adaption of up to 56%. For you that means:

- Easy single-shade layering techniques and more natural restorations.
- Convenient shade selection and matching.
- Easier masking of discolorations.

#### Easy handling –

Due to its creamy consistency Charisma Classic allows easy and fast modeling. And it comes with excellent finishing and polishing properties that facilitate a high surface lustre. In addition, the easy shade range permits a convenient shade selection and matching. Where else do you meet high quality and reliability standards with such ease?



## PRODUCT OUTLINE

### CHARISMA CLASSIC COMBI KITS

#### Syringe Combi Kit 6 x 4 g + GLUMA 2Bond

##### Contents

2 x 4 g syringes each of the shades  
A2, A3  
1 x 4 g syringe each of the shades  
A1, A3.5  
1 x 4 ml GLUMA 2Bond  
2 x 2.5 ml GLUMA Etch 35 Gel  
Pictorial Cards

**Art. code** 6605 6109



#### Syringe Combi Kit 8 x 4 g + GLUMA 2Bond

##### Contents

1 x 4 g syringe each of the shades  
A1, A2, A3, A3.5, B2, C2, OA2, OA3  
1 x 4 ml GLUMA 2Bond  
2 x 2.5 ml GLUMA Etch 35 Gel  
Shade Guide  
Pictorial Cards

**Art. code** 6605 6108



### CHARISMA CLASSIC ASSORTMENT

#### Syringe Assortment 4 x 4 g

##### Contents

1 x 4 g syringe each of the shades  
A1, A2, A3, OA2  
Shade Guide  
Pictorial Card

**Art. code** 6605 6110



#### Syringe Assortment 8 x 4 g

##### Contents

2 x 4 g syringes each of the shades  
A2, A3  
1 x 4 g syringe each of the shades  
A1, A3.5, B2, OA2  
Pictorial Card

**Art. code** 6605 6111



### CHARISMA CLASSIC SYRINGE REFILLS

#### 1 x 4 g syringes

Shades	Art. code
<b>Universal shades</b>	
A1	6605 6076
A2	6605 6077
A3	6605 6078
A3.5	6605 6079
A4	6605 6080
B1	6605 6101
B2	6605 6102
B3	6605 6103
C2	6605 6104
<b>Opaque shades</b>	
OA2	6605 6105
OA3	6605 6106
OA3.5	6605 6107

### CHARISMA CLASSIC SHADE GUIDE

#### Shade guide

**Art. code** 6605 6113



### CHARISMA CLASSIC ACCESSORIES

#### Plasmacoat Instrument

##### Contents

Modern composite instrument in the  
form of a Heidemann spatula with  
special titanium nitride coating

**Art. code** 6504 0417





## CHARISMA® SMART – NATURAL RESTORATIONS? EASILY!

Charisma Smart provides the smart way towards natural everyday restorations. It is an uncomplicated universal composite for everyday restorations with great value. We developed this light-curing, radiopaque filling material to cover your requirements for composite workability.

**Your new everyday composite rewards you with great value**

- **You benefit from its colour-stabilizing technology and easy polishability:** These features prevent staining of composite restorations in the long run and thus ensure natural results with little effort. On top, they bring convincing ease to your workflow.
- **You feel comfortable with its easy handling characteristics and vital shades:** The composite facilitates simple single-shade layering techniques for natural everyday restorations with great value. Its excellent handling and modelling properties arise from our long-standing experience in composite technology. In short, Charisma Smart provides the smart way towards natural everyday restorations.

Charisma Smart comes, of course, with the quality and reliability that arise from our long-term experience in composite technology. It's just smart to benefit from the great value of Charisma Smart.





## PRODUCT OUTLINE

### CHARISMA SMART COMBI KITS

#### Syringe Combi Kit 8x4 g + GLUMA 2Bond

##### Contents

2 x 4 g syringes each of the shades A2; A3  
1 x 4 g syringe each of the shades A1; A3.5; B2; Dentine  
1 x 4 ml bottle of GLUMA 2Bond  
2 x 2.5 ml syringe of GLUMA Etch 35 Gel

**Art. code** 6606 0400



#### Syringe Assortment 6x4 g

##### Contents

2 x 4 g syringes each of the shades A2; A3  
1 x 4 g syringe each of the shades A1, A3.5

**Art. code** 6606 0441



### CHARISMA SMART SYRINGE REFILLS

#### 1 x 4 g syringes

Shades	Art. code
A1	6606 0392
A2	6606 0393
A3	6606 0394
A3.5	6606 0395
B1	6606 0396
B2	6606 0397
Dentine	6606 0398

### CHARISMA SMART ACCESSORIES

#### Plasmacoat Instrument

##### Contents

Modern composite instrument in the form of a Heidemann spatula with special titanium nitride coating

**Art. code** 6504 0417



## CHARISMA® OPAL FLOW – DISCOVER THE SIMPLICITY OF NATURAL RESTORATIONS.

Charisma Opal Flow is the ideal completion of the Charisma-brand. Because of its very good controllable viscosity the minimal invasive tasks will be even more uncomplicated.

Charisma Opal Flow stands for diagnosis-safe radiopacity and easy handling. With this addition to either Charisma Diamond or Charisma Opal you get everything you need for durable and safe restorations.

- **Excellent handling properties:** Charisma Opal Flow creates a uniform, smooth surface in areas of the cavity that are difficult to access. The flowable composite is applied in a non-dripping syringe and retains its shape and position following application.
- **Naturally perfect, durable restorations:** Charisma Opal Flow shows low shrinkage and high flexural strength for naturally perfect, durable restorations. The compact shade system with its 7 colours can be combined with all commercially available acrylate based composites.
- **Safe diagnosis:** The composite filling is easily distinguished from the residual tooth structure due to its excellent radiopaque properties. Charisma Opal Flow ensures an optimal, reliable diagnosis.

#### Indications

- Enlarged fissure sealing.
- Cavity lining – as the first layer for class I and II.
- Class V fillings.
- Minimally invasive class I and II fillings in areas which are not in direct occlusal stress.
- Minimally invasive class III fillings.
- Small repairs of direct and indirect restorations combined with a suitable bonding agent.
- Splinting of mobile teeth.



## PRODUCT OUTLINE

### CHARISMA OPAL FLOW SYRINGE REFILLS

#### 1 x 1.8 g syringes

Shades	Art. code
A1	6604 0900
A2	6604 0951
A3	6604 0952
A4	6604 0953
B2	6604 0954
OM (Opaque Medium)	6604 0955
Baseliner	6604 0956



### CHARISMA OPAL FLOW SYRINGE ASSORTMENT

#### Syringe Assortment

Contents	
1 x 1.8 g Syringes each of the shades: A1, A2, A3, Baseline	
Art. code	6604 3422



### CHARISMA OPAL FLOW ACCESSORIES

#### Flow Cannulas

Contents	
100 pieces Flow Cannulas	
Art. code	6600 2613



## CHARISMA® FLOW – NATURALLY RELIABLE.

Charisma Flow is the ideal flowable supplement to our microhybrid composite Charisma Classic. Its low viscosity and good thixotropy makes it the ideal choice for many indications like cavity lining, fissure sealing and minimal invasive fillings. The Charisma Flow Baseline is a white and opaque shade that can be applied on the cavity floor to mark the transition to the natural hard tooth tissue. This means that unnecessary drilling away of healthy hard tooth tissue when removing an insufficient filling can be avoided.

### Charisma Flow stands for safe usage and a high standard of naturally reliable restorations

- Versatile all-rounder for many indications.
- Easy and fast handling due to its low viscosity and good thixotropy.
- Its radiopacity enables a save and reliable diagnosis.
- Pronounced chameleon effect.
- Shades of Charisma Flow optimally match the Charisma Classic shades.

### Indications:

- Fissure sealing.
- Enlarged fissure sealing.
- Class V fillings.
- Minimally invasive Class I and II fillings in areas not subjected to masticatory forces.
- Minimally invasive Class III fillings.
- Smaller contour and shade adjustment on the enamel and dentine.
- Small surface repairs to direct and indirect restorations in combination with a suitable bonding agent Splinting of teeth Cavity lining Bracket retention.



## PRODUCT OUTLINE

### CHARISMA FLOW SYRINGE ASSORTMENT

#### Syringe Assortment

##### Contents

1 x 1.8 g syringe each  
of shades A1, A2, A3, Baseline

**Art. code** 6601 5521



### CHARISMA FLOW SYRINGES

#### 1 x 1.8 g syringes

Shades	Art. code
A1	6601 5495
A2	6601 5496
A3	6601 5497
A3.5	6601 5498
B2	6601 5499
B3	6601 5500
OA2	6601 5501
OA4	6601 5502
Baseline	6601 5504



### CHARISMA FLOW ACCESSORIES

#### Flow Cannulas

##### Contents

100 pieces  
Flow Cannulas

**Art. code** 6600 2613



## 4 RESTORATIVE MATERIALS

### 4.1 FILLING MATERIALS

#### DURAFILL VS

## DURAFILL® VS — TIMELESS BEAUTY.

Durafill VS is a proven, light-curing microfiller composite for aesthetic anterior restoration.

Its perfect polishability, its distinctive colour brilliance with vivid gloss and the highly aesthetic results, especially in the anterior region, make Durafill VS into a perennial:

It has been successfully used in dental practices for over 30 years. The favourable processing properties, as well as the cosmetic and functionally convincing treatment successes, are appreciated by dentists and patients alike.

#### Your benefits at a glance

- Finest surface gloss due to perfect polishing properties.
- Exceptional shade brilliance with natural light refraction and vivid lustre.
- Excellent shade match with the surrounding tooth hard substance after polymerization.
- Easy to model, especially for the restoration of incisal edges due to the particular soft consistency.



## PRODUCT OUTLINE

### DURAFILL VS SHADE GUIDE

1 x 4 g syringes

Shades	Art. code
A1	6600 0008
A2	6600 0009
A3	6600 0010
A3.5	6600 0011
A4	6600 0012
B1	6600 0013
B2	6600 0014
B3	6600 0015
C1	6600 0016
C2	6600 0017
C3	6600 0018
C4	6600 0019

### DURAFILL VS SYRINGE REFILLS

Shade Guide

Art. code	6600 0046
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Shades	Art. code
D3	6600 0020
OA2	6600 0021
OA3	6600 0022
OA3.5	6600 0023
SL (Super Light)	6600 0025
SSL (Super Snow Light)	6600 2499
I (Incisal)	6600 0026

## SOLITAIRE® 2 – PACKABLE WITHOUT COMPROMISES.

Direct posterior tooth restoration is often chosen as an alternative to complicated, indirect restorations.

The packable, light-curing, radiopaque Polyglas composite Solitaire 2 has proven itself over many years for just this form of therapy.

### Your benefits at a glance

- Outstanding packability.
- Superb modelling properties – no sticking to the instrument.
- Excellent approximal contact point formation.
- Extremely resistant to mastication, excellent abrasion values.



## PRODUCT OUTLINE

### SOLITAIRE 2 SYRINGE REFILLS

1 x 4 g syringes

Shades	Art. code
A1	6600 1633
A2	6600 1634
A3	6600 1635

### SOLITAIRE 2 ACCESSORIES

Instrument

**Contents**  
Nonstick coated packing instrument, especially for posterior composite

**Art. code** 6600 1656



## 4 RESTORATIVE MATERIALS ADHESIVES

### PUT YOUR TRUST IN DEPENDABLE ADHESIVE STRENGTH — AND IN OUR EXPERIENCE.

Your patients expect efficiency and reliability from you every day. These are precisely the qualities you expect from an adhesive.

Based on our many years of expertise in the development of bonding agents, providing you with the materials you need to bond direct and indirect restorations.

Simple, safe and scientifically proven. The dependable adhesive strength and convincing margin quality of our products gives you the confidence you need every day in your surgery.

# Heraeus Kulzer

Mitsui Chemicals Group

## GLUMA®



Giving a hand to oral health.



## GLUMA® SELF ETCH – ONE STEP AHEAD.

Based on our long-term bonding expertise, we developed the self-adhesive system GLUMA Self Etch. This all-in-one bonding agent etches, primes, bonds, and desensitizes in one single step. Thus it meets your everyday requirements and demonstrates all characteristics which are important for an uncomplicated and state-of-the-art bonding agent.

#### With GLUMA Self Etch you benefit from:

- **One Step-reliability:** The reliability and qualities of GLUMA Self Etch is proven by many studies and test results. The innovative formula of GLUMA Self Etch support the excellent bond strength and supreme marginal sealing. And it allows treatments even in hypersensitive areas.
- **One Step-effectiveness:** GLUMA Self Etch allows you to apply just one layer for etching, priming, bonding plus desensitizing. GLUMA Self Etch system is immediately effective. Being a ready-to-use one step adhesive, no prior mixing, no shaking, no etching, no fridge storage is necessary.
- **One Step-safety:** The chemistry of GLUMA Self Etch allows you to have maximum error avoiding application, even treating hyperactive patients. Just one application step avoids unexpected treatment failures



## PRODUCT OUTLINE

### BOTTLE REFILL

#### Bottle Refill

##### Contents

1 x 4 ml bottle  
50 Applicator tips  
Mixing well  
Pictorial card

**Art. code** 6604 6246



### BOTTLE VALUE PACK

#### Bottle Value Pack

##### Contents

3 x 4 ml bottle  
Pictorial card

**Art. code** 6604 6247



## GLUMA® 2BOND – ADHESIVE CONVENIENCE.

Based on our long-term bonding expertise, we developed the Etch & Rinse adhesive system GLUMA 2Bond. It meets your every-day requirements for uncomplicated and state-of-the-art bonding. GLUMA 2Bond produces excellent adhesion to the enamel and the dentine, as well as an optimal marginal sealing. Furthermore it provides a desensitizing effect for sensitive patients or desensitization of hypersensitive areas.

### With GLUMA 2Bond, you benefit from:

- **More efficiency:** Due to the special formula, GLUMA 2Bond necessitates only one layer for priming, bonding and desensitizing.
- **More security:** GLUMA 2Bond provides excellent bond strength and ideal marginal sealing due to the innovative chemistry.
- **More reliability:** Numerous studies and tests have proven the bonding qualities of GLUMA 2Bond.
- **More convenience:** GLUMA 2Bond is a ready-to-use, one-bottle system. Simple application without prior mixing or shaking.



### With GLUMA 2Bond, patients benefit from:

- Less irritation: The desensitizing effect reduces post-operative sensitivity.
- Less preparation time: GLUMA 2Bond is immediately effective.
- Less sensitivity: GLUMA 2Bond can be used to seal hypersensitive areas of the teeth.

## PRODUCT OUTLINE

### REFILLS

#### Bottle Refill

##### Contents

1 x 4 ml bottle  
50 Applicator tips  
Mixing well  
Pictorial card

**Art. code** 6604 0972



### VALUE PACKS

#### Bottle Value Pack

##### Contents

3 x 4 ml bottle  
Pictorial card

**Art. code** 6604 0971



### ASSORTEMENTS

#### Bottle Assortment

##### Contents

1 x 4 ml bottle  
50 Applicator tips  
Mixing well  
Pictorial card  
2 x 2.5 ml syringes  
GLUMA Etch 35 Gel  
25 cannulas

**Art. code** 6604 0973



## GLUMA® BOND5 –

### TWO STEPS, ONE BOTTLE, NO PREPARATION TIME.

Based on our long-term bonding expertise, we developed the 5th generation etch&rinse one-bottle adhesive GLUMA Bond5. Produced to meet your everyday requirements for uncomplicated bonding, it exhibits excellent shear bond strength and ensures successful long-term restorations. GLUMA Bond5 produces excellent adhesion to the enamel and the dentine, as well as an optimal marginal sealing.

#### With GLUMA Bond5, you benefit from:

- Easy and safe handling and excellent performance.
- Only one layer for priming and bonding.
- High shear bond strength.
- Superior taking without dripping.

GLUMA Bond5 was developed for your comfort – in handling, performance and storage. It forms a homogeneous hybrid layer for safe sealing and high bond strength, especially on enamel. No shaking is needed before the application. GLUMA Bond5 can be stored at room temperature and is usable directly out of the bottle, without preparation time.

#### GLUMA Bond5 is ideally suited for:

- Adhesive fixing of direct composites, Polyglas® and compomer restorations.
- Adhesive fixing of indirect laboratory-fabricated ceramic, Polyglas® and composite restorations (inlays, onlays, veneers and crowns).
- In GLUMA Bond5 you find the prerequisites for the stable and satisfying fixing of your restorations.

## PRODUCT OUTLINE

### BOTTLE REFILL

#### GLUMA Bond5

##### Contents

GLUMA® Bond5 Bottle Refill,  
1 x 4 ml bottle

##### Art. code

6605 7341



## GLUMA® ETCH – SAFE ETCHING.

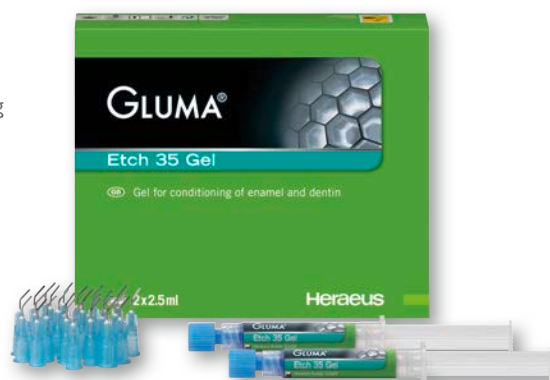
GLUMA Etch Gel is an etching agent based on orthophosphoric acid. It is used to etch enamel and condition dentine in the context of adhesive filling therapy.

#### Your benefits at a glance

- Clean and easy application.
- Reliable identification thanks to the colour of the gel.

GLUMA Etch Gel is used for enamel etching and enamel/dentine etching using the total etch technique prior to the adhesive bonding of:

- composite and compomer restorations
- laboratory-fabricated, indirect restorations (e.g., inlays, crowns, bridges, veneers)
- sealants.



## PRODUCT OUTLINE

### SYRINGE REFILL

#### GLUMA Etch 35 Gel

##### Contents

2 x 2.5 ml syringes  
25 cannulas

##### Art. code

6600 0130

## 4 RESTORATIVE MATERIALS ACCESSORIES & LED CURING LIGHTS

### YOUR ONE-STOP SHOPPING REQUIREMENTS — FOR TOOTH PRESERVATION TOO:

We look to you when it comes to developing our products. Because your needs set our standards. This not only applies for materials you work with on a daily basis. It also applies to supplementary materials and accessories with which we accompany your treatment processes and which facilitate your work. For even more sparkling results and even more efficient working. After all, your patients only get the best from you. And that is also what they deserve.

# Heraeus Kulzer

Mitsui Chemicals Group

## Translux®



Giving a hand to oral health.

## TRANSLUX® 2WAVE® — MADE TO PERFORM.

Translux 2Wave, the light-weight cordless LED curing light with a 360° rotatable light beam, offers maximum freedom of movement and technical novelties. We developed its features to perform for your benefit:

#### Easy and convenient handling

- Maximum freedom of movement and minimized hand fatigue thanks to the light weight of only 150 g and the cordless pen-style design.
- The light guide, having a high angle of 70° and being 360° rotatable, makes the molar region easily accessible.
- Due to the LED display and simple controls handling becomes intuitive.
- The scratch-resistant surface is quickly and easily disinfected.

#### A reliable performance

- The built-in radiometer enables you to check the performance of the curing light.
- The Translux 2Wave has strong, long-lasting Li-ion batteries that need only very little time for recharging.

#### Safe curing

- The Translux 2Wave features a steady high-intensity output and a homogenous light beam that are ideal for curing all common light-curing composites and adhesives.
- The broad spectral output with two wavelength ranges enables you to cover new and innovative photoinitiators as well as common camphor-quinone initiators.

## PRODUCT OUTLINE

### TRANSLUX 2WAVE

Order Information	Art. code
Hand piece, 8 mm light guide, glare shield, charging unit, power supply	<b>6605 5013</b>

Accessoires	Art. code
Light guide, 8 mm, 70°	<b>6605 7365</b>
Rechargeable battery	<b>6605 7363</b>
Glare shield, orange	<b>6601 6455</b>
Replacement contacts for charger	<b>6605 7366</b>
Hand Piece incl. battery	<b>6605 7371</b>
Charging unit white	<b>6605 7372</b>
Power supply	<b>6605 7468</b>



Technical data	
<b>Power Density</b>	> 1,400 mW/cm <sup>2</sup> (Cure Rite)
<b>Wavelength</b>	385–510 nm (broad)
<b>Dimensions charging unit</b>	L140xW60xH60 mm
<b>Dimensions hand piece</b>	L210 mm, Ø 23 mm
<b>Weight</b>	Charging unit 440g, Hand piece: 150g
<b>Power Supply (charging unit)</b>	100 to 240 V(AC), 50/60 Hz, 12–18 VA
<b>Power Supply (hand piece)</b>	Rechargeable Lithium-ion battery 3.6 V/2000 mAh
<b>Light Source</b>	High-luminosity quad-die LED
<b>Light guide</b>	Ø 8 mm, 70°



## TRANSLUX® WAVE® – FOR SAFE, SUSTAINABLE POLYMERISATION.

Translux Wave is a LED curing light for the polymerisation of dental materials such as adhesives and composites.

It is developed to consistently produce high-quality fillings with an optimum polymerisation depth in the 440–480 nm wavelength range.

#### Benefits at a glance

- **Pen-style body:** The light-weight and ergonomic pen-style design enables an effortless handling even for small hands. Furthermore, the advanced angle of the 360° rotatable light guide allows a better access to the molar regions.
- **One-button operation:** One convenient power/program button to choose easily between 10 and 20 seconds. LED lights indicate the program change.
- **Cordless design:** The cordless design gives you maximum freedom of movement.
- **Reliable performance:** Translux Wave comes with a strong and long life Li-ion battery. It requires very little time to recharge and the battery can be exchanged quickly and easily without tools. The built-in radiometer ensures the performance you need for the perfect restoration.

Translux Wave is a state-of-the-art LED curing light to deliver an optimum polymerisation for all commercially available camphor quinone based dental materials.

## PRODUCT OUTLINE

### TRANSLUX WAVE

Order Information	Art. code
Handpiece, 8 mm light guide, glare shield, charging unit, power supply	6605 5012

Accessoires	Art. code
Light guide, 8 mm, 70°	6605 7365
Rechargeable battery	6605 7363
Glare shield, orange	6601 6455
Replacement contacts for charger	6605 7382
Hand Piece incl. battery	6605 7383
Charging unit grey	6605 7384
Power supply	6605 7468



Technical data	
Power Density	> 1,200 mW/cm <sup>2</sup> (Cure Rite)
Wavelength	440–480 nm (narrow)
Dimensions charging unit	L140xW60xH60 mm
Dimensions hand piece	L210 mm, Ø 23 mm
Weight	Charging unit 437g, Hand piece: 145g
Power Supply (charging unit)	100 to 240 V(AC), 50/60 Hz, 5 W, 12–18 VA
Power Supply (hand piece)	Rechargeable Lithium-ion battery 3.6 V/2000 mAh
Light Source	High-luminosity mono-die LED
Light guide	Ø 8 mm, 70°

## CHARISMA® EASYSHINE – HIGH LUSTRE IN ONE SINGLE STEP.

It's fast and easy. It needs only one step. It's what you need to finish your composite restorations with perfect polishing results. Come and meet the new member to the Charisma family: Charisma EasyShine polishers.

- **Excellent results:** The diamond enhanced formula delivers excellent longlasting polishing results through a pressure controlled polishing process. Highly polished tooth surfaces prevent plaque accumulation and reduce the risk of secondary caries for long-lasting natural restorations.
  - **One-step polishing system:** Smoothing and high-lustre polishing in one step are possible by adapting the applied pressure. There is no need to change instruments, which saves time and brings less technique sensitivity.
  - **Universally applicable:** The three available shapes (Flame, Large Flame and Cup) cover all intra-oral applications. They are compatible with all kinds of composites and are ideally suited for Charisma composites from Heraeus Kulzer.
  - **Durable and reusable:** All polishers are suitable for sterilisation and therefore reusable.
- Enjoy the benefits of Charisma EasyShine polishers. They offer the fast and easy way towards perfect polishing results. They are the economic solution to finish off your Charisma restorations.



## PRODUCT OUTLINE

### CHARISMA EASYSHINE KIT

#### Polishing Kit

##### Contents

2 Charisma EasyShine polishers of each shape

**Art. code** 6606 0002

### CHARISMA EASYSHINE REFILLS

#### Refill – Flame

##### Contents

12 Charisma EasyShine polishers of shape Flame

**Art. code** 6606 0003

#### Refill – Cup

##### Contents

12 Charisma EasyShine polishers of shape Cup

**Art. code** 6606 0005

#### Refill – Large Flame

##### Contents

12 Charisma EasyShine polishers of shape Large Flame

**Art. code** 6606 0004

## 4 RESTORATIVE MATERIALS

### 4.3 ACCESSORIES & LED CURING LIGHTS

#### DIAMOND BURRS

#### ACCESSORIES & LED CURING LIGHTS






## DIAMOND INSTRUMENTS – VALUE FOR MONEY.


Our quality diamond instruments are characterized by a homogenous, perfectly embedded diamond coating for precise preparation and extended service life. The high grade tempered stainless steel shanks reduce the risk of breakage. Our burrs run vibration-free and concentric and by this preserve the service life of your turbine handpieces. Rounded working parts allow for modern tooth preparation without sharp edges.

Rondomant Gold Double Layer Instruments are our top of the line selection. Due to their special coating they offer superior abrasive efficiency and extended service life.

For conservative, minimally invasive cavity preparation we offer our Micro Burrs.











#### Minimally invasive 80 µmm

				
M137-007	M276-009	M276-012	M276-014	M536-007
6603 3881	6603 3882	6603 3883	6603 3884	6603 3885

Medium particle size	125 µm	blue – no ring	
Coarse particle size	175 µm	green ring	
Fine particle size	44 µm	red ring	
Extra-fine particle size	30 µm	yellow ring	

#### Round












#### Wheel

									
B001-010	B001-014	B001-016	B001-018	B001-021	B001-027	B001-033	B041-035	B068-037	B068-042
6598 6724	6598 6732	6598 6740	6603 1472	6600 6410	6600 6411	6599 0284	6598 7305	6603 1473	6603 1474
						6599 0926			

#### Cylinder round head

#### Torpedo

#### Cylinder endcutting












										
B138-010	B140-012	B140-014	B131-018	B289-014	B290-012	B290-014	B298-014	B298-016	B298-018	B150-012
6598 6872	6603 1475	6598 6880	6599 0217	6599 0276	6603 1484	6603 1486	6601 5851	6601 5852	6601 5853	6600 6413
	6603 1476	6599 0152			6603 1485	6603 1487				

## 4 RESTORATIVE MATERIALS


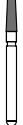




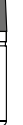


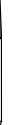

### 4.3 ACCESSORIES & LED CURING LIGHTS

#### DIAMOND BURRS

##### Cone rounded end










										
B197-018	B198-016	B198-018	B198-020	B198-022	B199-012	B199-014	B199-016	B199-018	B224-012	B545-016
6600 6418	6598 7240	6600 6419	6600 6420	6600 6421	6603 1477	6600 6422	6600 6423	6598 7267	6599 0888	6603 1488
		6603 3887			6603 1478		6603 3889			
					6599 0861					

##### Cone flat end

										
B170-010	B171-016	B172-016	B172-018	B172-020	B173-014	B173-016	B173-018	B174-014	B174-016	B174-020
6598 6902	6598 7100	6598 7119	6600 6415	6600 6429	6599 0500	6598 7127	6600 6416	6598 7194	6598 7216	6600 6417
	6599 0233	6600 6428			6599 0853		6599 0241			


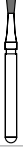







##### Egg

##### Flame

								
B243-022	B277-023	B249-010	B249-012	B249-016	B250-012	B257-020	B257-023	B540-010
6600 6430	6600 6427	6599 0896	6600 6425	6598 7291	6603 3890	6600 6426	6601 5854	6599 0470
	6603 3893				6603 3892			
	6599 0519				6599 0918			
	6603 3894							

##### Cavity pear

##### Extended cone

								
B233-010	B233-010X	B233-012	B234-012	B234-014	B234-018	B002-010	B002-014	B002-016
6600 6424	6603 1616	6603 1481	6603 3895	6603 1483	6599 0268	6598 6791	6598 6805	6598 6813
			6599 0187	6599 0209				
			6603 1482					

## ACCESSORIES & LED CURING LIGHTS

### Cylinder flat



### Diabolo



B156-009	B156-010	B156-012	B156-014	B156-018	B157-012	B158-014	B019-010	B019-012	B019-014
6600 6412	6598 6783	6598 7070	6598 6899	6598 7089	6600 6414	6598 7097	6598 6821	6598 6848	6598 6864
	6603 3896	6603 3897	6599 0160			6599 0225			6603 3898
		6599 0845							

### Inverted cone



### Amalgam filling remover

B010-010	B010-016	B225-016	B225-018	B511-016	B512-018	B519-018	B514-018	B521-018
6598 6759	6598 6767	6598 6945	6598 6953	6599 1450	6599 1469	6599 1493	6599 1523	6599 1531

## RONDOMANT GOLD – MULTI-LAYERED

### Cylinder round head



### Torpedo



### Flame



### Cone rounded/flat end



DL140/012	DL141/014	DL156/012	DL158/014	DL289/012	DL289/014	DL290/014	DL250/012	DL250/016	DL199/012	DL546/016
6600 0644	6600 0645	6600 0629	6600 0646	6600 0651	6600 0652	6600 0653	6600 0649	6600 0650	6600 0647	6600 0675
6600 0678		6600 0659	6600 0664	6600 0669	6600 0670	6600 0671	6600 0667	6600 0668	6600 0665	
				6600 0680		6600 0681		6600 0679		

### Cone with torpedo tip



### Cavity ball/ pear



DL298/014	DL298/016	DL298/018	DL298/020	DL298/022	DL299/012	DL299/016	DL299/018	DL001/014	DL234/012	DL234/014
6600 0641	6600 0642	6600 0643	6600 0657	6600 0658	6600 0654	6600 0655	6600 0656	6600 0628	6600 0640	6600 0648
6600 0661	6600 0662	6600 0663	6600 0676	6600 0677	6600 0672	6600 0673	6600 0674		6600 0660	6600 0666

## 4 RESTORATIVE MATERIALS

### 4.3 ACCESSORIES & LED CURING LIGHTS

#### IVORY RUBBER DAMS & CLAMPS

## IVORY – THE COMPLETE SYSTEM FOR TOOTH ISOLATION.

We recommend Ivory Rubber Dams for absolute isolation of the treatment area. We provide Ivory Rubber Dam Clamps in a variety of sizes and shapes. With the Ivory all-in-one system, you will master practically every application, ranging from routine to challenging treatments.

#### **Ivory Rubber Dams**

The Ivory rubber dam is manufactured from natural latex and undergoes a special washing step during the manufacturing process to reduce surface proteins. Ivory Rubber Dam has extremely high tear strength, reducing waste from tearing during application. The Rubber Dam is thin and pliable, allowing easy placement in especially difficult areas.

#### **Ivory Rubber Dam Clamps**

We produce the Ivory rubber dam clamps in various sizes and shapes. Each Ivory clamp is die-cut, heat treated, tempered and individually hand-set to ensure high performance. This is how we guarantee the high performance of the stainless steel clamps and confident fixation of the rubber dam.

#### **Ivory Punch**

This precision instrument is made from high quality stainless steel. The unique floating plunger strikes all edges of the cutting disc evenly, guaranteeing a perfect, tear-resistant hole every time. The cutting disc rotates through a range of 6 hole sizes, providing the correct opening for the smallest anterior tooth to the largest molar.

#### **Ivory Forceps**

The Ivory forceps are made from high grade stainless steel to ensure many years of use. The forceps will reach around the bow of any clamp without tilting, which is especially important when reversing a clamp. The straight head design allows easy gripping and placement of any clamp size.

#### **The most popular stainless steel clamps.**

- Available in a multitude of sizes and shapes.
- Die-cut, heat-treated, tempered and individually hand-set to ensure high performance.
- Also available in wingless.



## PRODUCT OUTLINE

## IVORY® MOST POPULAR



## Rubber dam kits and clamps

Complete Rubber Dam Kit (Punch, Forceps, Rubber Dam, Frame, 8 Clamp Starter Kit, and Template)	5005 7966
Rubber Dam Clamp Starter Kit (8 Clamps: 0, 2, 2A, 7, 8A, 9, 14, 14A)	5005 7968

## WINGED CLAMPS

Stainless Steel Clamp No. 00	5005 7302
Stainless Steel Clamp No. 0	5005 7304
Stainless Steel Clamp No. 1	5005 7306
Stainless Steel Clamp No. 1A	5005 7308
Stainless Steel Clamp No. 2	5005 7310
Stainless Steel Clamp No. 2A	5005 7312
Stainless Steel Clamp No. 3	5005 7322
Stainless Steel Clamp No. 4	5005 7324
Stainless Steel Clamp No. 5	5005 7326
Stainless Steel Clamp No. 7	5005 7328
Stainless Steel Clamp No. 7A	5005 7330
Stainless Steel Clamp No. 8	5005 7334
Stainless Steel Clamp No. 8A	5005 7336
Stainless Steel Clamp No. 10	5005 7338
Stainless Steel Clamp No. 11	5005 7342
Stainless Steel Clamp No. 12A	5005 7348
Stainless Steel Clamp No. 13A	5005 7352
Stainless Steel Clamp No. 14	5005 7354
Stainless Steel Clamp No. 14A	5005 7356
Stainless Steel Clamp No. 26	5005 7370
Stainless Steel Clamp No. 27	5005 7372
Stainless Steel Clamp No. 56	5005 7374

## ANTERIOR CLAMPS

Stainless Steel Clamp No. 6	5005 7382
Stainless Steel Clamp No. 9	5005 7384
Stainless Steel Clamp No. 212	5005 7392

## TIGER CLAMPS

Stainless Steel Clamp No. 1T	5005 7841
Stainless Steel Clamp No. 2T	5005 7843
Stainless Steel Clamp No. 2AT	5005 7847
Stainless Steel Clamp No. 9T	5005 7855
Stainless Steel Clamp No. 14T	5005 7849
Stainless Steel Clamp No. 56T	5005 7853

## Rubber dam kits and clamps

## WINGLESS CLAMPS

Stainless Steel Clamp No. W0	5005 7504
Stainless Steel Clamp No. W1	5005 7506
Stainless Steel Clamp No. W2	5005 7510
Stainless Steel Clamp No. W2A	5005 7512
Stainless Steel Clamp No. W3	5005 7522
Stainless Steel Clamp No. W4	5005 7524
Stainless Steel Clamp No. W5	5005 7526
Stainless Steel Clamp No. W7	5005 7528
Stainless Steel Clamp No. W8	5005 7534
Stainless Steel Clamp No. W8A	5005 7536
Stainless Steel Clamp No. W14	5005 7554
Stainless Steel Clamp No. W14A	5005 7556
Stainless Steel Clamp No. W56	5005 7568
Stainless Steel Clamp No. 26N	5005 7728
Stainless Steel Clamp No. 27N	5005 7730
Stainless Steel Clamp No. 28N	5005 7732

## Rubber dams

Blue 6' x 6" 36 Sheets	4000 0267
Green 5' x 5" 52 Sheets	4000 0280
Green 6' x " 36 Sheets	4000 0282

## Accessories

## Rubber dam Punch and Forceps

Rubber Dam Forceps	5005 7220
Rubber Dam Punch	5005 7225

## Rubber dam Frames

Adult Frame (6 in)	5005 7230
Pedo. Frame (5 in)	5005 7229

## Rubber dam template

Template 6" x 6"	5005 7235
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## FOR EVERY APPLICATION THE PERFECT SOLUTION.

There's a system behind our precision in prosthetics.

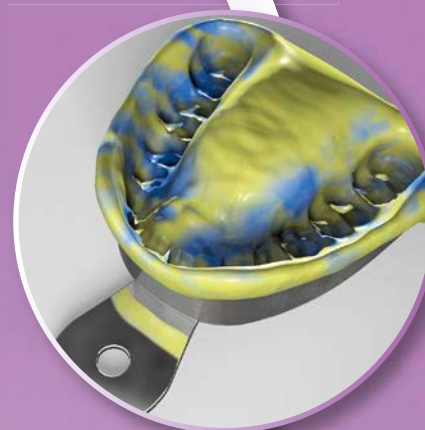
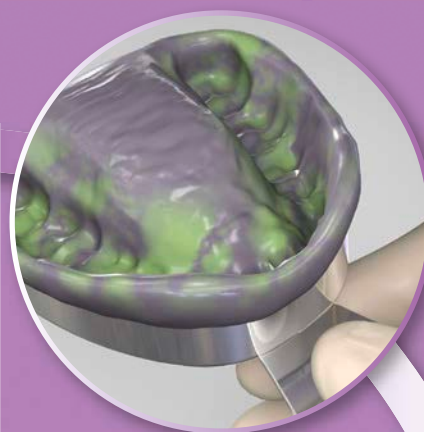
Precision and safe handling of materials decide the results in your prosthetic work. Besides addition-curing and condensation-curing silicones, our comprehensive product portfolio also includes alginates and bite registration materials. Our mixing device promote the efficiency of your treatment workflows and simply make your work easier. We also meet your requirements with our high-performance materials for temporary restorations or luting of indirect restorations.

### 5 Prosthetics

### 66–113

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## PROSTHETICS



## A-SILICONE VPS PRECISION IMPRESSION MATERIALS HERE YOUR EXPECTATIONS WILL BE MET.

You want aesthetic, perfectly fitting restorations without corrections. We want you to be satisfied with the results of your work at all times. The common denominator – our VPS precision impression materials. This represents an important step towards perfect restorations. And you profit comprehensively from our experience. Because we always have your safety in mind in product development and we attach importance to your patients' comfort. Just like you. See for yourself.

Variotime®



Giving a hand to oral health.

### 5.1 A-SILICONE VPS PRECISION IMPRESSION MATERIALS

#### VARIOTIME

## VARIOTIME®

### FREEDOM TO IMPRESS.

Variotime combines outstanding performance and features with more than 25 years of Heraeus Kulzer experience in VPS precision impression materials.

It comes with a variable time concept which provides more leeway with starting the setting time. Because we want you to know the splendid feeling of freedom and reliability.

#### Think vario – Freedom can be this simple

- Straightforward, adaptable handling: You get one material with variable applications – for single crowns as well as multi-unit prosthetic restorations.
- **Automatic mixing:** With the Dynamix speed system you benefit from high-speed mixing and precise dispensing, also for Putty viscosities.
- **Convenient, time-saving working:** You gain more leeway with starting the setting time. With Variotime you have a variable working time, ranging from 1:00 – 2:30 minutes, and an always short intraoral setting time of 2:30 minutes.

Variotime controls the polymerisation kinetics by mouth temperature and sets rapidly after insertion into the mouth.

The Variotime assortment is a well thought-out, coordinated all-round system for all impression techniques. Apart from being beneficial to your time line.



## PRODUCT OUTLINE

### VARIOTIME DYNAMIX CARTRIDGE REFILLS

#### Putty Refill

##### Contents

2 x 380 ml Dynamix Putty  
2 Dynamix Mixing Tips  
1 Dynamix Fixation Ring

Art. code 6604 4995



#### Heavy Tray Refill

##### Contents

2 x 380 ml Dynamix Heavy Tray  
3 x 2 Dynamix Mixing Tips  
3 x 1 Dynamix Fixation Ring

Art. code 6604 5000



#### Monophase Refill

##### Contents

2 x 380 ml Dynamix Monophase  
2 Dynamix Mixing Tips  
1 Dynamix Fixation Ring

Art. code 6604 5034





#### PRODUCT OUTLINE

##### VARIOTIME DYNAMIX 50 ml AUTOMIX CARTRIDGE REFILLS

###### Heavy Tray Refill

###### Contents

2 x 50 ml Heavy Tray  
5 Mixing Tips green

Art. code 6604 4998



###### Light Flow Refill

###### Contents

2 x 50 ml Light Flow  
10 Mixing Tips yellow

Art. code 6604 5038



##### VARIOTIME DYNAMIX HANDMIX TRIAL KIT

###### Easy Putty + Flow Trial Kit

###### Contents

1 x 600 ml Easy Putty  
(each 300 ml Base & Cat.)  
1 x 50 ml Light Flow  
5 x Mixing Tips yellow  
5 x Intraoral Tips  
1 x Universal Adhesive (10 ml)

Art. code 6604 5044



###### Monophase Refill

###### Contents

2 x 50 ml Monophase  
5 Mixing Tips green

Art. code 6604 5032



###### Extra Light Flow Refill

###### Contents

2 x 50 ml Extra Light Flow  
10 Mixing Tips yellow

Art. code 6604 5040



##### VARIOTIME DYNAMIX HANDMIX REFILL

###### Easy Putty Refill

###### Contents

600 ml Easy Putty  
(each 300 ml Base & Cat.)

Art. code 6604 4993



###### Medium Flow Refill
























###### Contents

2 x 50 ml Medium Flow  
10 Mixing Tips yellow

Art. code 6604 5036





Indication	Technique	Viscosity of tray material	Product Recommendation
Crowns/Bridges	Two-Step Impression	High viscous	 Step 1 Heavy Tray  Step 2 Extra Light Flow
		Kneadable, high viscous	 Step 1 Putty  Step 2 Extra Light Flow
	Double-Mix Impression	High viscous	 Heavy Tray +  Medium Flow/  Light Flow
	Sandwich Impression	Kneadable, high viscous	 Putty +  Medium Flow/  Light Flow
	Monophase Impression	Medium viscous	 Monophase
Functional Impressions	Monophase Impression	Medium viscous	 Monophase
Inlays/Onlays	Double-Mix Impression	High viscous	 Heavy Tray +  Medium Flow/  Light Flow
	Sandwich Impression	Kneadable, high viscous	 Putty +  Medium Flow/  Light Flow
	Monophase Impression	Medium viscous	 Monophase
Transfer/Implant Impressions	Double-Mix Impression	High viscous	 Putty+  Medium Flow/  Light Flow
	Monophase Impression	Medium viscous	 Monophase

### 5.1 A-SILICONE VPS PRECISION IMPRESSION MATERIALS

#### PROVIL NOVO

## PROVIL® NOVO — YOUR INDIVIDUAL SELECTION FOR PRECISION.

You make a point of individuality in your working process? Then you'll want to work with Provil novo, the modular A-silicone system. It consists of five perfectly matched consistencies, available in two setting times.

With its optimal quality and broad range of indications, Provil novo serves as a base for precise impressions and accurate prosthetics.

- 5 ideally matched consistencies and setting times for all clinical situations and different techniques.
- Impressions with extremely high precision.
- High recovery from deformation.
- Optimal final hardness.
- Long lasting dimensional stability.
- Excellent thixotropic and hydroactiv properties.

#### The advanced modular impression system for all techniques

The modular system design ensures the highest level of comfort and meets every need for individuality. Provil novo completely adapts to any impression technique and individual working style.

The advanced formulation of Provil novo offers non-technique sensitive accuracy of fit in all clinical situations. The regular set offers 2:00 min working time and 3:30 min setting time. The fast set comes with a working time of 1:30 min and a setting time of 2:30 min. Provil novo is available in different delivery forms, ranging from the Dynamix and Automix cartridge systems to handmix variants (tubes and doses).



## PRODUCT OUTLINE

### PROVIL NOVO AUTOMIX CARTRIDGE REFILLS

#### Monophase fast set

##### Contents

6 x (2 x 50 ml Monophase fast set,  
6 Mixing Tips green)

Art. code **6600 6470**



#### Medium regular set

##### Contents

6 x (2 x 50 ml Medium regular set,  
12 Mixing Tips yellow)

Art. code **6600 6469**



#### Monophase regular set

##### Contents

6 x (2 x 50 ml Monophase regular set,  
6 Mixing Tips green)

Art. code **6600 6471**



#### Light fast set

##### Contents

6 x (2 x 50 ml Light fast set,  
12 Mixing Tips yellow)

Art. code **6600 6466**



#### Medium fast set

##### Contents

6 x (2 x 50 ml Medium fast set,  
12 Mixing Tips yellow)

Art. code **6600 6468**



#### Light regular set

##### Contents

6 x (2 x 50 ml Light regular set,  
12 Mixing Tips yellow)

Art. code **6600 6467**



Note: You can also obtain Provil tubes, tins or cartridges from your dental distributor in single packs of 1 x 280 ml tubes, 1 x 900 ml tins or 2 x 50 ml cartridges!

### PRODUCT OUTLINE

#### PROVIL NOVO HANDMIX REFILLS

##### Putty fast set

###### Contents

4 x 500 ml Putty fast set  
(250 ml each of base and catalyst)

Art. code 6522 0695



##### Putty soft fast set

###### Contents

4 x 500 ml Putty soft fast set  
(250 ml each of base and catalyst)

Art. code 6520 9845



##### Putty regular set

###### Contents

4 x 500 ml Putty regular set  
(250 ml each of base and catalyst)

Art. code 6522 0725



##### Putty soft regular set

###### Contents

4 x 500 ml Putty soft regular set  
(250 ml each of base and catalyst)

Art. code 6521 9409



#### TUBE PRODUCTS

##### Monophase

###### Contents

Tube 2 x 280 ml Monophase  
(2 x 140 ml each of base and catalyst)

Art. code 6522 3058



##### Medium

###### Contents

Tube 2 x 280 ml Medium  
(2 x 140 ml each of base and catalyst)

Art. code 6520 9268



##### Light

###### Contents

Tube 2 x 280 ml Light  
(2 x 140 ml each of base and catalyst)

Art. code 6520 9225



## NOTES

[illegible]

## C-SILICONE IMPRESSION MATERIALS

### SPECIFIC RESPONSES TO YOUR REQUIREMENTS.

Diverse requirements? No problem with the right material. C-silicones offer broad variation options for processing. They are easy to handle and excel with high precision and sound economy. Our C-silicones have long set standards in precision impressions and they are the reliable all-rounder for daily use in your surgery.

## Optosil® / Xantopren®



Giving a hand to oral health.



## OPTOSIL® COMFORT / XANTOPREN® COMFORT – OUR STATE-OF-THE-ART C-SILICONES.

The Optosil/Xantopren product assortment is proven in practice since many years and has set the standard for silicone precision impression early on. It enables precise reproduction of detail and shows no sensitivity either towards latex gloves or retraction solutions. The Optosil/Xantopren system is available in different versions tailor-made for your professional demands.

Optosil P Plus and Xantopren are reliable for daily use in the dental practice. As a matched system of classical putty and low viscosity materials, they are user friendly and enable precise reproduction of detail. As such they are our classics for daily use in the dental practice

#### Easy, secure and fast – the Optosil/Xantopren Comfort System

The Optosil/Xantopren Comfort System is a further development of the classic Optosil/Xantopren System.

- Exact reproduction of detail because of Hydrocontrol. That means perfect wetting properties and controlled application even in a moist environment.
- Easy application using the practical 4:1 cartridge dispensing system (for Xantopren Comfort Light/Medium)
- High dimensional stability of Optosil Comfort Putty for reproducible results even when pouring after 7 days\*

#### The perfect system for edentulous impressions

Xantopren M mucosa / Xantopren function are our specialists for edentulous arches. Xantopren M mucosa is best used for functional mucosal impressions. Xantopren function is applied for functional border impression, open mouth impression (passive impression) and closed mouth impression (active impression).

\* (In-vitro-Study by Prof. Dr. Wöstmann, Justus Liebig University, Giessen, Germany)



## PRODUCT OUTLINE

### OPTOSIL COMFORT HANDMIX TIN REFILLS

#### Putty

##### Contents

4 x 900 ml tins

(= ca. 4 x 1 kg)

Art. code 6601 0202



### XANTOPREN COMFORT 50 ml AUTOMIX CARTRIDGE REFILLS

#### Medium

##### Contents

3 x (2 x 50 ml Xantopren  
Comfort Medium,  
12 Mixing Tips yellow 4:1)

Art. code 6600 0786



### ACCESSORIES

#### Activator Universal Plus

##### Contents

Optosil/Xantopren  
1 x 60 ml paste  
(tube)

Art. code 6603 7447



#### Putty

##### Contents

1 x 450 ml

Art. code 6604 5682

#### Light

##### Contents

3 x (2 x 50 ml Xantopren  
Comfort Light,  
12 Mixing Tips yellow 4:1)

Art. code 6600 0785



#### Activator Universal Plus

##### Contents

Optosil/Xantopren  
1 x 25 ml liquid  
(bottle)

Art. code 6603 7448



Note: You can also obtain tubes or tins from your dental distributor in single packs of 1 x 140 ml tubes or 1 x 900 ml tins!

## OPTOSIL® / XANTOPREN® – OUR STATE-OF-THE-ART C-SILICONES.

The Optosil/Xantopren product assortment is proven in practice since many years and has set the standard for silicone precision impression early on. It enables precise reproduction of detail and shows no sensitivity either towards latex gloves or retraction solutions. The Optosil/Xantopren system is available in different versions tailor-made for your professional demands.

Optosil P Plus and Xantopren are reliable for daily use in the dental practice. As a matched system of classical putty and low viscosity materials, they are user friendly and enable precise reproduction of detail. As such they are our classics for daily use in the dental practice

#### Easy, secure and fast – the Optosil/Xantopren Comfort System

The Optosil/Xantopren Comfort System is a further development of the classic Optosil/Xantopren System.

- Exact reproduction of detail because of Hydrocontrol. That means perfect wetting properties and controlled application even in a moist environment.
- Easy application using the practical 4:1 cartridge dispensing system (for Xantopren Comfort Light/Medium)
- High dimensional stability of Optosil Comfort Putty for reproducible results even when pouring after 7 days\*

#### The perfect system for edentulous impressions

Xantopren M mucosa / Xantopren function are our specialists for edentulous arches. Xantopren M mucosa is best used for functional mucosal impressions. Xantopren function is applied for functional border impression, open mouth impression (passive impression) and closed mouth impression (active impression).

\* (In-vitro-Study by Prof. Dr. Wöstmann, Justus Liebig University, Giessen, Germany)



## PRODUCT OUTLINE

## OPTOSIL HANDMIX REFILLS

**P plus****Contents**

4 x 900 ml tins  
(= approx. 4 x 1.38 kg)

**Art. code** 6600 3720



## ACCESSORIES

**Activator Universal Plus****Contents**

Optosil/Xantopren  
1 x 60 ml paste (tube)

**Art. code** 6603 7443

**Activator Universal Plus****Contents**

Optosil/Xantopren  
1 x 25 ml liquid (bottle)

**Art. code** 6603 7445



## XANTOPREN REFILLS TUBES

**H green high viscosity****Contents**

4 x 140 ml tubes,  
incl. 2 mixing pads

**Art. code** 6600 7340

**L blue low viscosity****Contents**

4 x 140 ml tubes,  
incl. 2 mixing pads

**Art. code** 6600 3721

**VL plus very low viscosity****Contents**

4 x 140 ml tubes,  
incl. mixing cup

**Art. code** 6600 3996



Note: You can also obtain tubes or tins from your dental distributor in single packs of 1 x 140 ml tubes or 1 x 900 ml tins!

## 5.2 C-SILICONE IMPRESSION MATERIALS

### XANTOPREN FUNCTION

## XANTOPREN® FUNCTION – THE PERFECT SYSTEM FOR IMPRESSIONS OF EDENTULOUS ARCHES.

Xantopren Function is very well suited to functional impressions of edentulous arches. The working times can be selected individually. Both materials can be disinfected and are comfortable to use.

#### Indications

Kneadable impression material for functional impressions of edentulous arches

- Open mouth impression (passive impression).
- Closed mouth impression (active impression).

#### Benefits

- Special consistency for fine muscle movement.
- Individually adjustable processing times.
- Neutral odour and taste.
- Disinfectable.

## PRODUCT OUTLINE

### XANTOPREN FUNCTION

#### Assortment

##### Contents

1 x 450 ml Xantopren function tub (paste)  
1 x 7 ml bottle each of hardener component (red + yellow)  
dosing tray and mixing block

##### Art. code

6603 7442



### XANTOPREN FUNCTION COMBI PACK

#### Combi Pack

##### Contents

1 x 7 ml bottle each of hardener components (red + yellow)

##### Art. code

6603 7441



Note: You can also obtain tubes from your dental distributor in single packs of 1 x 140 ml tubes!

## XANTOPREN® M MUCOSA – THE PERFECT SYSTEM FOR IMPRESSIONS OF EDENTULOUS ARCHES.

Xantopren M mucosa was developed specifically for impressions of sensitive mucosa.

### Indication

- Medium viscosity impression material for mucosa impressions.

### Benefits

- Thixotropic, i.e. flowable under pressure, stable after release of pressure.
- Does not flow in the pharynx area.
- Individually adjustable working times.
- Disinfectable.

## PRODUCT OUTLINE

### XANTOPREN M MUCOSA

#### Xantopren M mucosa

##### Contents

4 x 140 ml tubes  
2 x mixing block

##### Art. code

6600 7341



Note: You can also obtain tubes from your dental distributor in single packs of 1 x 140 ml tubes!

## ALGINATE & ALGINATE SUBSTITUTE IMPRESSION MATERIALS

### TWO MATERIAL GROUPS FOR ANATOMICAL IMPRESSIONS.

Anatomical models serve numerous diagnostic and therapeutic purposes in the dental surgery. The precondition for producing a suitable anatomical model is an accurately dimensioned impression.

We offer you two material groups for anatomical impressions – besides alginates, also alginate substitute.

The high dimensional and storage stability of the alginate substitute facilitates pouring the impression several times and even after a delay. Mixing occurs easily, safely and quickly in an automatic mixing device.



# Heraeus Kulzer

Mitsui Chemicals Group

## xantALGIN®/ALGINoplast®



Giving a hand to oral health.

## 5.3 ALGINATE & ALGINATE SUBSTITUTE IMPRESSION MATERIALS

### ALGINOPLAST/XANTALGIN

## ALGINOPLAST® / XANTALGIN® –

### GROWN FROM NATURE, PROCESSED WITH EXPERIENCE

#### Alginoplast® – the firm alginate offering detailed reproduction with high stability.

It shows a high level of accuracy, elasticity and tensile strength, and is also extremely well compatible with plaster. The dust free and clean mixing is easy and comfortable

We use high quality seaweed from preferred cultivation areas as a basis for our alginate impression material. These alginates last longer without preservatives. Since they do not contain any chemical disinfectants, they are skin and gingiva friendly. Their mild peppermint taste also makes the impression more pleasant for the patient. Alginoplast is best suited for documentation, analysis, planning, opposing bite and working model.

#### Alginoplast fulfils your requirements of modern materials for anatomic impression.

- Its stable consistency, offering detailed reproduction, is ideal for dentists who prefer a stable alginate with high stability.
- The fast setting variant saves time and is practical.
- The normal-setting variant is suitable for automatic mixing without time pressure during processing.

#### Xantalgin® – the fine-paste alginate for sensitive patients.

It shows a high level of accuracy and is particularly suitable for sensitive patients due to its soft starting consistency. The dust free and clean mixing is easy and comfortable

We use high quality seaweed from preferred cultivation areas as a basis for our alginate impression material. These alginates last longer without preservatives. Since they do not contain any chemical disinfectants, they are skin and gingiva friendly. Their mild peppermint taste also makes the impression more pleasant for the patient. Xantalgin is best suited for documentation, analysis, planning, opposing bite and working model.

#### Xantalgin Select

- The creamy consistency is particularly good for sensitive patients.
- Thanks to its high elasticity and tensile strength, impressions can be removed easily, even if there was undercutting.
- The short setting time is pleasant and saves time.

#### Xantalgin Crono

- Xantalgin Crono shows each phase of the setting reaction through a colour change.
- Thanks to its optimised reaction mechanism, the impressions can be poured out up to 5 days later.



## PRODUCT OUTLINE

### ALGINOPLAST

#### Fast Set, Double economy pack

##### Contents

2 x (20 x 500 g) in foil bag

Art. code 6600 2444



### XANTALGIN SELECT

#### Fast Set, clinic pack

##### Contents

2 x 500 g in foil bag,  
mixing aids and storage box

Art. code 6569 2097



### XANTALGIN CRONO

#### Fast Set, clinic pack

##### Contents

2 x 500 g in foil bag,  
mixing aids and storage box

Art. code 6600 5222



#### Regular Set, Double economy pack

##### Contents

2 x (20 x 500 g) in foil bag

Art. code 6601 5600



#### Fast Set, Double economy pack

##### Contents

2 x (20 x 500 g) in foil bag

Art. code 6600 2443



#### Fast Set, Double economy pack

##### Contents

2 x (20 x 500 g) in foil bag

Art. code 6600 5221



## XANTASIL® ALGINATE SUBSTITUTE – MOULDED FOR CONVENIENCE.

We have developed xantasil specifically for the requirements of your anatomical impressions. The addition-curing, elastomeric alginate substitute will give you robust impressions with long-term dimensional and storage stability every time.

Xantasil covers all anatomical impression indications for which traditional alginates would typically be used. It can be used as a substitute for traditional alginates for taking impressions of temporaries, orthodontic models, splints and impressions of opposing jaws.

### Long-term dimensional stability

- More flexibility and convenience when pouring impressions – no time pressure.
- Later pouring with no loss of accuracy.
- Multiple pouring of an impression.
- Better detail reproduction compared to traditional alginates.
- Can be stored for several weeks.

### Automatic mixing

- Compatible with the Dynamix speed mixing device.
- Excellent void-free, homogeneous mix quality.
- Hygienic processing with no dust formation and cleaning.
- Saves time and effort due to the ready-to-use dosage form and the low number of work steps (compared to traditional alginates).
- Material savings – only the required amount of material is dispensed.

## PRODUCT OUTLINE

### XANTASIL ASSORTMENT

#### Dynamix Fast Set

##### Contents

2 x 380 ml  
2 Dynamix Mixing Tips,  
1 Fixation Ring

Art. code 6605 2101

#### Cartridge Refill Fast Set

##### Contents

6 x 50 ml  
xantasil Fast Set,  
6 Mixing Tips green

Art. code 6605 2102



xantasil®

Impressively convenient.



xantasil®

xantasil® – The alginate substitute that adapts to your workflow. Not vice versa.

- **For your flexibility:** The long-term dimensional stability enables also a later and repeated pouring without time pressure.
- **For your comfort:** The impression is more convenient for patient and dentist due to its hygienic processing, short time in mouth and reusability.
- **For your routine:** The especially fast automatic mixing with the Dynamix speed system ensures an excellent and reproducible mixing quality.

Heraeus Kulzer. Giving a hand to oral health.



## 5 PROSTHETICS

### BITE REGISTRATION & SPECIAL INDICATIONS

#### THE PERFECT SOLUTION FOR EVERY REQUIREMENT.

No matter how precisely dental prosthetics are made. They also have to integrate in the three-dimensional spatial relationship between the maxilla and mandible. By determining the occlusion, our bite registration materials based on addition-curing silicones contribute to the fabrication of perfectly fitting dental prosthetics. Their diverse uses in prosthetics, conservative dentistry, implantology and orthodontics are examples of their broad spectrum of applications – from the standard bite registration situation through to special indications.

Variotime®



Giving a hand to oral health.



### 5.4 BITE REGISTRATION & SPECIAL INDICATIONS

#### VARIOTIME BITE

## VARIOTIME BITE® — BITE REGISTRATION ACCURATE TO DIMENSION.

Variotime Bite is a scannable VPS bite registration material that features the easy, efficient and safe processing you know from our Variotime precision impression material.

It is one material, but it has multifunctional applications.

#### Benefits from the diversified features of Variotime Bite

- **Extra hard:** Its very high final hardness of Shore D 40 prevents undesirable shifts when you adjust the position of the casts in the articulator.
- **Extremely fast:** Variotime Bite offers a working time of 30 s and a fast intraoral setting time of only 30 s. That means convenient, yet time saving working for you and high comfort for your patients.
- **Superb scannability:** It also permits powder-free 3D-data recording of the antagonists for CAD/CAM technology.
- **Distinct thixotropy:** The material avoids flowing off from the occlusal surface into the interdental spaces and enables easy removal from the mouth. It enables you to precisely capture the occlusal surface while saving material.
- **Whipped cream-like consistency:** Variotime Bite assures a resistance-free bite without distortion. That makes bite registration stress-free for you – and your patients.
- **Easy to trim & grind:** You will appreciate the convenient processing with its minimum risk of fracture.

## PRODUCT OUTLINE

### VARIOTIME BITE REFILL

#### 50 ml Automix Cartridge Refill

##### Contents

2 x 50 ml Variotime Bite,  
10 Mixing Tips green

Art. code

6604 5042



## 5.4 BITE REGISTRATION &amp; SPECIAL INDICATIONS

MEMOREG 2/MEMOSIL 2

Variotime®

## MEMOREG® 2 / MEMOSIL® 2 –

## THE EXPERTS FOR BITE REGISTRATION AND SPECIAL INDICATIONS

**MEMOREG® 2 – the expert for bite registration materials**

MEMOREG 2 is a highly filled, pink-coloured A silicone for all standard bite registration that can be applied easily and directly in the mouth.

It is ideally suited for standard bite registrations for crown/bridge work, facebow registrations, and fixation of gothic arch registrations.

**With MEMOREG 2, you and dental technicians benefit from:**

- **Exceptional thixotropy:** Its distinct thixotropic properties increase the flow of the material under pressure. After pressure is released it becomes stable. The material also does not drip during the application and can be built-up easily.
- **Easy identification of bite-through areas:** Thanks to the intensive colour, the dentist immediately recognises, where the patient has bitten through the material.
- **Comfortable Handling:** The material can easily be removed from the mouth without breaking or tearing. Thanks to its final hardness of 90 Shore A, the dental technician can articulate the models correctly in relation to one another. Easy to trim and grind with burs, scissors and scalpel. MEMOREG 2 exhibits excellent dimensional stability.

The automix cartridge system saves you time and reduces the risk of registration errors. Thanks to its short time in mouth and the neutral taste and odour, patients are more at ease.

**MEMOSIL® 2 – the expert for special indications**

MEMOSIL 2 is a transparent A-silicone for special indications. Its transparency allows optical control when positioning aids (e.g. X-ray pellets). Light-curing is possible for filling and fixative materials through placeholders with MEMOSIL 2.

The material is best suited for use as an occlusal stamp for light-curing posterior composites, an anterior stamp for provisionals, fillings and veneers, a fixation material for x-ray measuring spheres when planning implants and a transfer matrix for bracket constructions on the plaster model.

**With MEMOSIL 2, you and dental technicians benefit from:**

- **Optical control:** MEMOSIL 2's transparency facilitates the positioning of aids. It also allows light curing of composites and fillings through the material.
- **More hygiene:** Processing of MEMOSIL 2 is clean and hygienic due to its direct and sterile application.

The automix cartridge system saves you time and reduces the risk of registration errors. MEMOSIL 2 also increases treatment comfort for your patients. Thanks to its short time in mouth and the neutral taste and odour, patients are more at ease. An additional benefit for you is the time saving, since it can be applied directly into the patient's mouth.

## PRODUCT OUTLINE

**MEMOREG 2****50 ml Automix Cartridge Refill****Contents**

3 x (2 x 50 ml Memoreg 2,  
12 Mixing Tips green).

**Art. code****6600 4965****MEMOSIL 2****50 ml Automix Cartridge Refill****Contents**

3 x (2 x 50 ml Memosil 2,  
12 Mixing Tips green)

**Art. code****6600 4969**

## 5 PROSTHETICS

### PROSTHETICS EQUIPMENT

WE GIVE YOU MORE TIME FOR WHAT IS ESSENTIAL.

We look to you when it comes to developing our products. Because your needs set our standards. This not only applies for the materials you use daily, but also for the equipment that makes processing easier or reduces your workload. So you can concentrate even more on what is essential. Your patients.

Variotime®



Giving a hand to oral health.

## DYNAMIX® SPEED – PRECISION AT THE PUSH OF A BUTTON.

When it comes to high-speed mixing, time-saving and simultaneously obtaining a consistent, void-free mixture, the decision is easily reached: Practical cartridges and the functional Dynamix speed mixer are perfectly matched in this well thought-out system featuring all the advantages of automatic mixing for impression materials.

### Its efficiency lies in its speed.

- With Dynamix speed, mixing is especially fast and dosing very precise, also with putty materials.
- Dynamix speed is easy and safe to handle.
- You save time and material.
- You choose between three velocities – including a high-speed option.

### Reliable in quality and precision

- Homogeneous and void-free mixing leads to precisely fitting prosthetic restorations.
- The material properties are always reproducible.
- The mixing quality stays the same for consistent precise fitting and is user-independent.

Dynamix speed is compatible with all impression materials in Dynamix cartridges from Heraeus Kulzer.



## PRODUCT OUTLINE

### DYNAMIX SPEED DEVICES

#### EU Standard

##### Contents

1 x Dynamix machine 230 V  
1 x EU power cord with schuko plug

Art. code 6604 5779

### DYNAMIX SPEED CARTRIDGE ACCESSORIES

#### Mixing Tips 5 x 50

##### Contents

5 x (50 Dynamix Mixing Tips,  
1 Dynamix Fixation Ring)

Art. code 6603 5999



#### Fixation Ring 10 x 2

##### Contents

10 x 2 Dynamix Fixation Rings

Art. code 6603 6078



### DYNAMIX ACCESSORIES

#### Wall Mount

Art. code 6603 3825

### DYNAMIX SPEED POWER CORD

#### EU Power Cord 230 V

Art. code 6603 4592

#### UK Power Cord 230 V

##### Contents

British 3-Pin

Art. code 6603 4326

#### CH Power Cord 230 V

Art. code 6603 4327

#### OZ Power Cord 230 V

##### Contents

Australian 3-Pin

Art. code 6603 4328

### DYNAMIX SPEED SPARE PART

#### Spare Part Cover NEW

Art. code 6604 1021

#### Spare Part Plunger Discs

Art. code 6603 2128

#### Spare Part Fuse EU 230 V

Art. code 6603 4329

#### Spare Part Base plate new

Art. code 6604 7093

#### Spare Part Base Feet 4pcs

Art. code 6603 5030

#### Spare Part Rubber stamp

Art. code 6603 5051

## PRODUCT OUTLINE

## DYNAMIX SPEED ADHESIVE

## Universal Adhesive

## Contents

For all Heraeus A- and C-silicones  
1 x 10 ml bottle, blue

Art. code 6560 7758



## DYNAMIX SPEED DISPENSING GUNS FOR 50 ml AUTOMIX CARTRIDGES

## Dispensing Gun 2 (1:1/2:1)

## Contents

Dispensing gun for cartridge systems:  
Variotime Heavy Tray  
Variotime Monophase  
Variotime Extra Light Flow  
Variotime Light Flow  
Variotime Medium Flow  
Variotime Bite  
Provil novo Monophase  
Provil novo Medium  
Provil novo Light  
Memoreg 2  
Memosil 2  
xantasil

Art. code 6600 1970



## Dispensing Gun (4:1)

## Contents

Dispensing gun for cartridge systems:  
Xantopren Comfort Medium  
Xantopren Comfort Light

Art. code 6600 0781



## DYNAMIX SPEED MIXING TIPS FOR 50 ml AUTOMIX CARTRIDGE SYSTEMS

## Mixing Tip green (1:1)

## Contents

48 mixing tips for  
Variotime Heavy Tray  
Variotime Monophase  
Variotime Bite  
Provil novo Monophase  
Memoreg 2  
Memosil 2  
xantasil

Art. code 6600 1989



## Mixing Tip yellow (1:1)

## Contents

48 mixing tips for  
Variotime Extra Light Flow  
Variotime Light Flow  
Variotime Medium Flow  
Provil novo Monophase  
Provil novo Medium  
Provil novo Light

Art. code 6600 1988



## Mixing Tip yellow (4:1)

## Contents

48 mixing tips for  
Xantopren Comfort Medium  
Xantopren Comfort Light

Art. code 6600 0783



## DYNAMIX SPEED INTRAORAL MIXING TIPS

## Intraoral Tip white

## Contents

96 tips for Mixing Tip green (1:1)  
for intraoral application of  
Variotime Monophase  
Provil novo Monophase

Art. code 6568 7514



## Intraoral Tip yellow

## Contents

96 tips for Mixing Tip yellow (1:1)  
for intraoral application of  
Variotime Extra Light Flow  
Variotime Light Flow  
Variotime Medium Flow  
Provil novo Medium  
Provil novo Light  
Xantopren Comfort Medium  
Xantopren Comfort Light

Art. code 6600 0782



## Bite Registration Tip

## Contents

96 broad intraoral tips for  
Variotime Bite  
Memoreg 2

Art. code 6600 0905





## PRODUCT OUTLINE

### DYNAMIX SPEED CARTRIDGE ACCESSORIES

#### Dynamix Mixing Tip

##### Contents

5 x 50 Dynamix Mixing Tips  
5 x 1 Dynamix Fixation Ring

Art. code 6603 5999



#### Dynamix Fixation Ring

##### Contents

10 x 2 Dynamix Fixation Rings

Art. code 6603 6078



### DYNAMIX SPEED IMPRESSION SYRINGES

#### Impression Jet

##### Contents

Sterilizable metal syringe for precise application of impression materials

Art. code 6538 6909



#### Impression Jet Tips

##### Contents

10 plastic tips for  
Impression Jet Syringe

Art. code 6538 6917



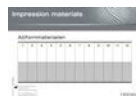
### DYNAMIX SPEED MIXING AIDS

#### Universal mixing pad

##### Contents

1 mixing pad  
DIN A5

Art. code 6600 4363



#### Xantopren mixing cup

##### Contents

1 Mixing cup

Art. code 6527 8223



#### Xantopren mixing spatula

##### Contents

Metal construction

Art. code 6528 3677



### DYNAMIX SPEED MIXING AIDS

#### Alginate mixing spatula

##### Contents

1 Alginate  
Mixing spatula

Art. code 6523 4072

#### Alginate mixing bowl

##### Contents

1 Alginate mixing bowl

Art. code 6523 4064



## PERMANENT? TEMPORARY?

### THIS IS HOW INDIRECT RESTORATIONS LAST AS LONG AS THEY SHOULD.

We offer a range of cements for luting permanent and temporary indirect restorations. Self-adhesive composite resins – which we offer in recognised Heraeus Kulzer quality – are increasingly used in modern dentistry. And for conventional techniques we provide you with our dependable and long established products for lining and cementing.

# Heraeus Kulzer

Mitsui Chemicals Group

CEMENTS & LUTING MATERIALS



Giving a hand to oral health.

## 5.6 CEMENTS &amp; LUTING MATERIALS

## iCEM SELF ADHESIVE

iCEM® SELF ADHESIVE –  
THE EASIEST WAY OF CEMENTATION

iCEM Self Adhesive is a dual-curing all-in-one luting composite with dependable adhesive strength. It is applied easily, quickly and in a convenient way and reduces the risk of post-operative sensitivity. This means: etching, priming, bonding, desensitising and cementing of indirect restorations in one step.

**One material – many advantages**

- Etching, priming, bonding, desensitising and cementing in one step.
- Dependable adhesive strength for durable restorations.
- Reduction of post-operative hypersensitivities.
- Flexible working time.
- Wide range of indications.

**With iCEM Self Adhesive you cement**

- metal and metal-ceramic crowns and bridges.
- all-ceramic crowns and bridges produced using CEREC-systems.
- crowns and bridges using reinforced ceramics (e.g. zirconia).
- metal, ceramic and composite inlays and onlays.
- metal, titanium and glass fiber posts.
- nylon materials for splinting loose teeth.



## PRODUCT OUTLINE

## iCEM SELF ADHESIVE

**Syringe Refill****Contents**

1 Automix syringe x 5 ml (7 g)  
15 Mixing tips  
Pictorial card

**Art. code** 6603 6084

**Syringe Value Pack****Contents**

3 Automix syringes x 5 ml (7 g)  
45 Mixing tips  
Pictorial card

**Art. code** 6603 7633

**Mixing Tips Refill****Contents**

50 Mixing tips

**Art. code** 6603 6085



[illegible]

## CARBOXYLATE CEMENT — CLINICALLY PROVEN.

Carboxylate cements show an excellent clinical performance. They are ideally suited for cementing permanent restorations and offer additional protection against thermal and chemical influences when used as lining cement.

#### Your benefits at a glance

- Wide range of application.
- Reliable protection against thermal and chemical influences.
- Cementation of crowns, bridges and inlays as well as cavity liner for permanent restorations.



## PRODUCT OUTLINE

### CARBOXYLATE CEMENT

#### Liquid

##### Contents

1 x 30 ml bottle

##### Art. code

6599 4190

#### Powder

##### Contents

1 x 90 g glass

##### Art. code

6599 4204

## PHOSPHATE CEMENT – THE CLASSICAL CEMENT.

Phosphate Cement is very suited for the cementation of permanent restorations and offers additional protection against thermal and chemical influences as cavity liner. The proven Phosphate Cement is available in two setting speeds and therefore adapts to various requirements in dental offices.

### Your benefits at a glance

- Broad application spectrum.
- Reliable protection against thermal and chemical influences.
- Cementation of e.g. crowns, bridges and inlays, as well as cavity liner for permanent restorations.



## PRODUCT OUTLINE

### PHOSPHATE CEMENT

#### Liquid

##### Contents

Regular curing,  
1 x 30 ml bottle

Art. code 6599 4220

#### Powder

##### Contents

Regular curing,  
1 x 90 g glass

Art. code 6599 4212

#### Liquid

##### Contents

Fast curing,  
1 x 30 ml bottle

Art. code 6599 4247

#### Powder

##### Contents

Fast curing,  
1 x 90 g glass

Art. code 6599 4239



#### ALSO TEMPORARIES NEED RELIABILITY.

Temporary restoration of prepared teeth is a key component in the process of crown and bridge fabrication. It not only offers protection for the tooth, but also allows the patient to get an impression of the permanent restoration.

**PreVISION®**



Giving a hand to oral health.

## PREVISION® CEM — TEMPORARY CEMENTATION MADE EASY.

PreVISION Cem is a ready-to-use, one-component provisional cement. It is suitable for the reliable cementation of temporary crowns and bridges as well as for the provisional cementation of permanent restorations.

#### Your benefits at a glance

- High effectiveness with easy application.
- Immediately ready-to-use.
- No mixing, no dosing errors, no waste of material.
- Eugenol-free.
- Moisture setting.



## PRODUCT OUTLINE

### PREVISION CEM TUBE

#### Tube

##### Contents

1 x 37 g plastic tube

##### Art. code

6600 1540

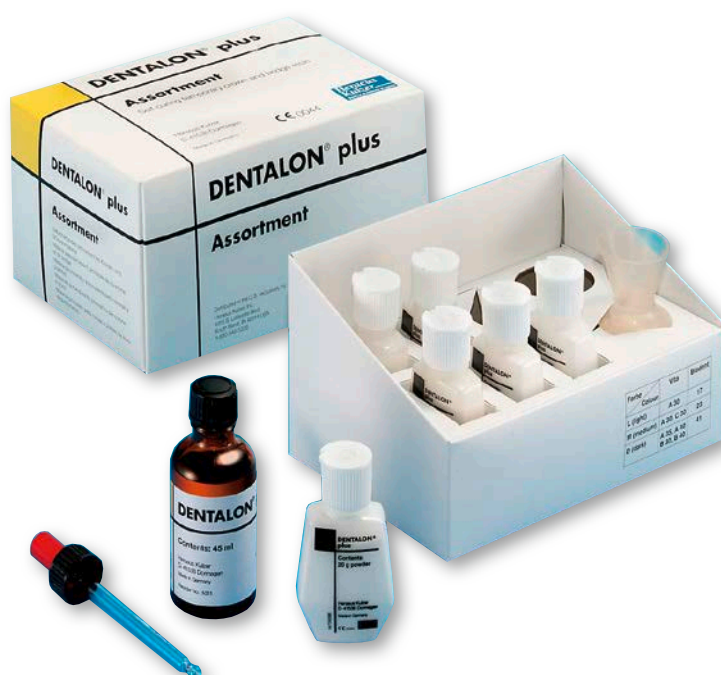
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## DENTALON® PLUS — WELL-ESTABLISHED.

Dentalon plus is a well-established self-curing resin in a powder/liquid combination for the fabrication of temporary crowns and bridges.

### Your benefits at a glance

- High gloss polish.
- High mechanical stability.
- Individual colour adaptation possible.
- High colour stability due to amine free catalyst system.



## PRODUCT OUTLINE

## DENTALON PLUS ASSORTMENT

## Assortment

## Contents

1 x 45 ml liquid  
2 x 20 g powder in  
each of shades L, M, D,  
mixing pipette, mixing bowl

Art. code 6504 1200

## DENTALON PLUS LIQUID

## Liquid

## Contents

1 x 45 ml bottle

Art. code 6504 1146

## Liquid

## Contents

1 x 250 ml bottle

Art. code 6504 1138

## DENTALON PLUS POWDER

## Powder L (Light)

## Contents

1 x 100 g powder

Art. code 6504 1065

## Powder M (Medium)

## Contents

1 x 20 g powder

Art. code 6504 1111

## Powder M (Medium)

## Contents

1 x 100 g powder

Art. code 6504 1073

## Powder D (Dark)

## Contents

1 x 100 g powder

Art. code 6504 1057

DIGITAL PROSTHETICS FROM CARA.  
PUT YOUR TRUST IN GROUND-BREAKING SOLUTIONS.

As an innovative, reliable partner for dental practices and dental laboratories, the Digital Services division offers products, services and technologies for the complete digital dental workflow in the cara system. With our state-of-the-art cara Production Centres and our extensive product portfolio covering all elements of CAD/CAM, we offer you precisely the solutions that you require. Customised, high-quality and aesthetic.

Utilise the full potential of digital dentistry with cara including: digital impression-taking with the dental scanner in the practice or laboratory, to processing of the data with CAD software, centralised production of the frameworks in the cara Production Centres as well as veneering products for dental technicians. We offer you the optimal solutions with our products and services.

6 CAD/CAM

6.1	Intraoral impression
	cara TRIOS intraoral scanner
	cara TRIOS workflow
6.2	cara Hardware and Software
6.3	Implant Prosthetics
	cara I-Butment
	cara I-Bridge
	cara I-Bar
	cara YantaLoc
6.4	Crown and Bridge Prosthetics
	cara crowns, bridges and more

114–127

116–119
117
118
119
120–124
121
122
123
124
125–127
125



# Heraeus Kulzer

Mitsui Chemicals Group

cara 



cara makes life so easy

## 6.1 INTRAORAL IMPRESSION

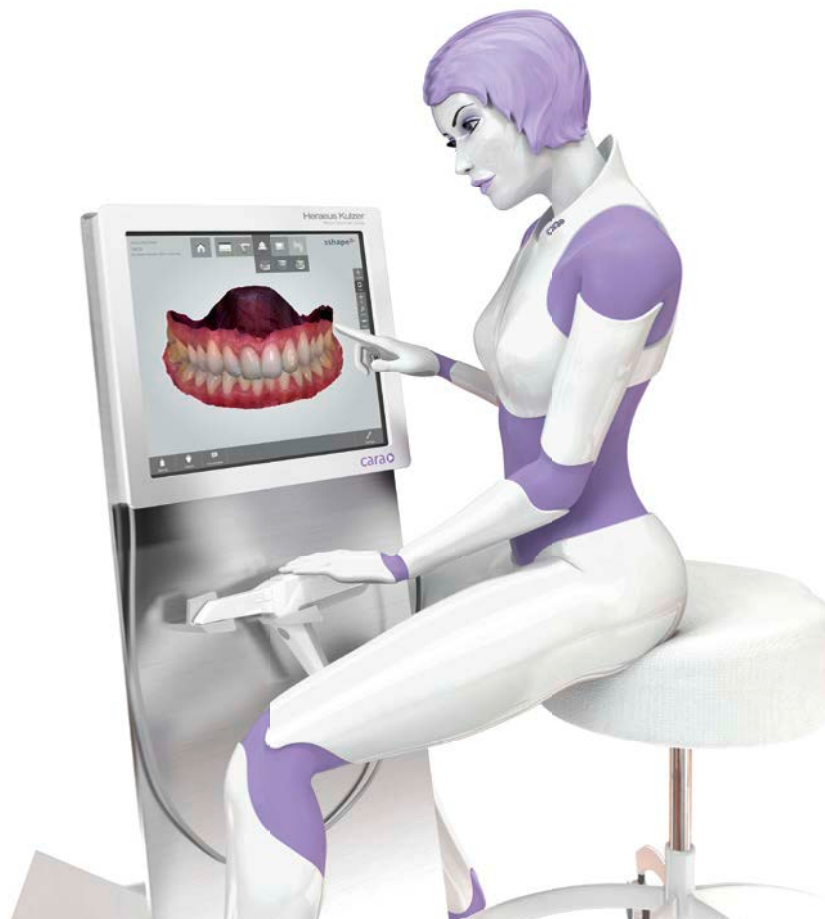
cara TRIOS INTRAORAL SCANNERS



## Scanning, designing and producing with cara. Benefits in digital prosthetics.

cara sets new benchmarks for convenience and quality in digital prosthetics time and time again. It starts from scanning. With cara TRIOS it is possible to make real-colour digital scans of complete patient cases in next to no time – corrective impressions are finished in only about 10 seconds. Additional digital highlights are direct communication with your laboratories, the security of your patient data and the seamless traceability of your impressions.

Laboratory scanners and add-on modules, the cara CAD points and the cara Meeting Point complement the hardware and software offering. Added to this are our latest cara updates, such as the new cara I-Butment in cobalt-chrome, the cara translucent zirconium dioxide material, the cara I-Bridge and cara I-Bar implant superstructures with patented innovations such as the angled screw channels.



TRIOS,  3Shape



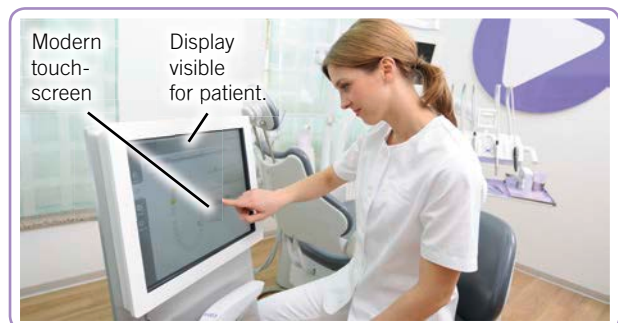
## cara TRIOS intraoral scanner.

### New standards in digital impressions.

Not only your patients are happy. There is less and less need for the often uncomfortable impression-taking process at the practice, as it is replaced by the considerably more comfortable digital impression-taking process using the intraoral scanner. The oral situation is captured in three dimensions and stored in digital form in virtually no time. Free of powder and contrast agents and absolutely precise.

### cara TRIOS

It also looks professional. The terminal's touchscreen shows you the progress of the scanning process and the captured oral situation in real time while allowing the possibility to check and correct the scan data at any time. The ergonomic design of the scanner allows for easier alignment and the terminal can now also be operated via a Bluetooth interface. The easy-to-clean terminal also complies with the high hygiene requirements in your practice.



cara TRIOS: Easily visible and easy to use.

### cara TRIOS Pod

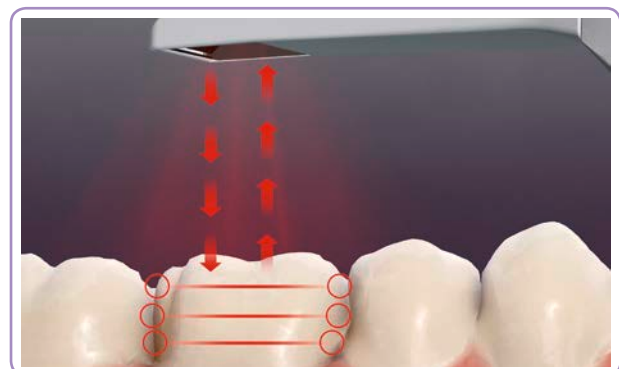
Simply take cara TRIOS with you! To do so, install the software on your PC or laptop, connect the cara TRIOS Pod via a USB port and start scanning. Even when space is restricted, or when work is performed at a number of locations, the Pod always proves to be the ideal solution. You can also start live transmission of the scan on your iPad with our own dedicated streaming app.



Real-time 3D scan in true colours and cara TRIOS Pod.

### cara TRIOS hand piece

Ultra-fast optical sectioning in real-time 3D! With TRIOS you have a high-performance scanner in your hand and you can always see what you're doing. The user-friendly device, with optimised signal processing for the buccal cavity and prosthetic foreign bodies, sees into the depths step by step, always identifies the entire tooth volume and collects the intraoral data clearly and distinctly.



cara TRIOS hand piece: linear projection and reception without blind spots.

## 6.1 INTRAORAL IMPRESSION

## cara TRIOS WORKFLOW



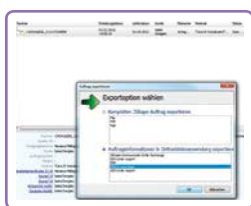
## cara TRIOS workflow.

### Digital connection with cara.

Convincing all-round care from cara. Together with your dental laboratory, we accompany you on your way to the digital world of cara. Whether its connection advice for your partner, the offer and order for the laboratory and practice or training the practice and laboratory staff, our TRIOS service has got it all covered!

The rapid, uncomplicated exchange of the intraoral scan data is performed via the web-based 3Shape Communicate™ account, already integrated in the user interface of the cara TRIOS. This allows you to upload the scan data easily and communicate with your laboratory. Whether it's for approvals or dental imprints, 3D previews of design proposals, possible preparation limits or the clarification of complex questions – the TRIOS terminal, PC, tablet or smartphone offers you complete access and communication options at all times and from absolutely everywhere.

### TRIOS data processing



#### 1. TRIOS Inbox

The laboratory finds the data from the intraoral scanner on its dental system in the TRIOS Inbox folder.



#### 2. Model Builder Software

The data are prepared via the 3Shape Model Builder Software™, the scan trimmed and the removable stumps marked.



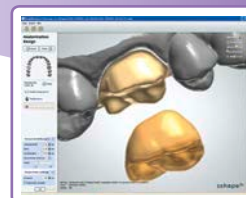
#### 5. Finished restoration

The subsequent manual veneering is prepared in the dental laboratory.



#### 4. Production

Using modern computer aided manufacturing processes (CAM) your design is transformed into a highly precise workpiece.



#### 3. Dental Designer

Preparation of the intraoral scan data is followed by the traditional design of the restoration in the 3Shape Dental Designer™ CAD software.



## cara Hardware and Software.

### Scanners & software for all your needs.

#### cara scanners

Have you got your own laboratory connected to your dental practice? Then you have three different classic versions to choose from at once. The cara D500 scanner was developed specially for medium-sized dental laboratories. The D700/D800 scanners from our partner 3Shape are high-end scanners for laboratories with a large number of CAD/CAM units. The new cara D900 scanner with four cameras and 20 megapixels as well as a blue beam of LED light allows you to work even more quickly and in parallel. In addition, the device offers you colour texture scanning and an integrated multi-die scanning function.

#### DentalManager software

- Smile Composer™
- Virtual articulator
- Work simultaneously in the upper and lower jaw
- Many additional features



D900 scanner  
from 3Shape.

#### Add-on software module

- Abutment Designer™
- Implant Bars & Bridges™
- Model Builder™
- Additional add-on modules:  
Model casting, ortho software

#### cara CAD points

Minimum risk without direct investment costs! For laboratories that want to offer all indications without having to pay high licence fees, the cara CAD points are the perfect solution. They can be used for a host of different indications and laboratories only pay when the software is needed.



#### cara Meeting Point

cara Meeting Point unites the dental laboratory, dental practice and cara Production Centre. The web-based online software allows the simple and direct digital exchange of dental scan data – even from non-3Shape systems. The bonus for you: Time-intensive and expensive written correspondence and transport are no longer necessary.





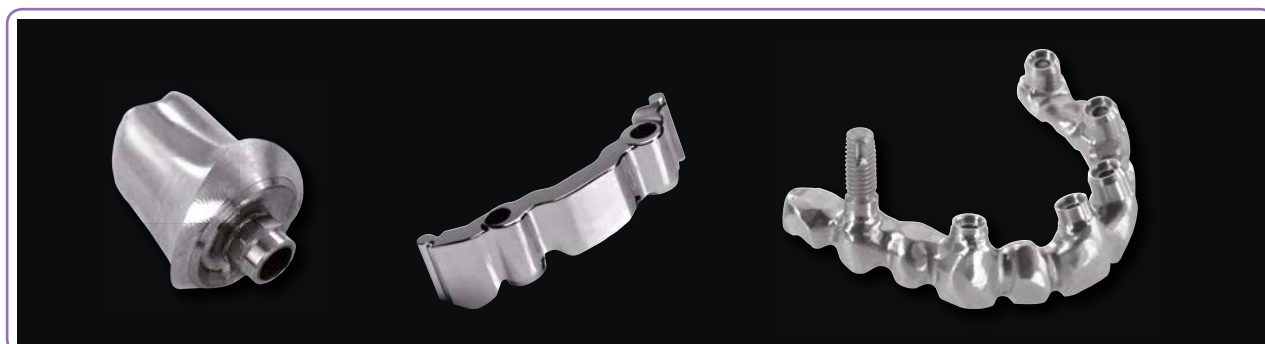


## cara Implant Prosthetics.

The safe way to enhanced aesthetics.

Implantology and aesthetic dentistry are inseparable in dental prosthetics and dentistry. Just like the cara I-Products and the implant systems of your choice! The customised abutments and superstructures for high-quality dental restorations offer you the perfect conditions for taking your first steps in the growing world of implant prosthetics or expanding your market position.

The use of cara I-Products pays off for you. For example, the naturally shaped emergence profile and the individually designable abutment make it even easier for you to achieve first-class results. For maximum flexibility, the screw channel can even be angled on the cara I-Butment CoCr angled, cara I-Bridge angled and cara I-Bar angled. This offers you considerably more technical flexibility and also allows you to expand your range of services significantly. The secure, reliable direct screw connection means you do not need any more abutments for adjusting divergent implants. For you, that means fewer parts and work steps and thus increased cost-efficiency and time savings.



From left to right: one-piece cara I-Butment, cara I-Bar and cara I-Bridge with implant also made of titanium.

### cara Warranty

As a technology pioneer, our company boasts much more experience than our imitators. In combination with state-of-the-art production processes and a professional quality assurance system, this allows us to offer you guarantees spanning up to 20-years<sup>1</sup> on cara I-products. The prosthetic solutions that offer you the greatest flexibility are thus also covered by the most comprehensive guarantee.



### cara I-Solutions

The cara I-Products are available for a wide variety of implant systems<sup>2</sup>. You can find more detailed information on which system is best suited to which indication in the continuously updated platform overviews at [www.cara-kulzer.com](http://www.cara-kulzer.com)

Manufacturer	
BioHorizons®	Nobel Biocare
Biomet 3i™	Osstem®
Camlog® Implant System	Straumann®
Dentaurum tioLogic®	Thommen®
Dentsply Implants	TRI®-Vent
Neoss™	Zimmer Dental

<sup>1</sup> cara guarantees depending on material selection: cara I-Butment 5–10 years, cara I-Bridge 5–20 years, cara I-Bar 10 years.

<sup>2</sup> The registered trademarks and company names are the property of the respective companies.

## 6.3 IMPLANT PROSTHETICS

## CARA I-BUTMENT

cara



## cara I-Butment®.

Customised abutments with a perfect fit.

Take advantage of the benefits of customised cara I-Butments in comparison with standard abutments. We guarantee you the highest quality, a perfect fit and accuracy to your specifications with CAD/CAM production. This allows you to adapt the cement margin to the gingival level. They not only look like real teeth but also reduce the risk of periimplantitis.

cara offers you the perfect abutment for every indication and aesthetic situation. You have the choice between two-piece abutments made of zirconium dioxide on a titanium interface and one-piece titanium or cobalt-chrome abutments. The naturally shaped emergence profile, the simple adjustment of divergent implants and the possibility of angling the abutment geometry by up to 25° with cara I-Butment CoCr are additional benefits.



Two-piece zirconium abutment on titanium interface.



One-piece titanium abutment.



cara I-Butment angled CoCr with angled screw channel.



Zirconium dioxide



Zirconium dioxide translucent



Titanium



Cobalt-Chrome SLM



Cobalt-Chrome milled



25°



cara I-Butment CoCr angled with screw channel angled up to 25°.



## 6.3 IMPLANT PROSTHETICS

## CARA I-BRIDGE



## cara I-Bridge®.

## Flexibility with angled screw channels.

Our innovative prosthetics update speaks for itself! cara I-Bridge regular with straight screw channels and cara I-Bridge angled with angled screw channels are accurately produced and homogeneous implant bridges with an optimal fit. They offer increased safety thanks to stress-free bridges and the screw connection reduces the risk of periimplantitis. cara I-Bridge are produced with the latest CAD/CAM technology in our production centre in Helsingborg, Sweden, and are available for all market-leading implants systems via the “cara I-Bridge New Connection”.

 <b>Zr</b> Zirconium dioxide		 <b>Ti</b> Titanium	 <b>CoCr</b> SLM Cobalt-Chrome SLM	 <b>CoCr</b> milled Cobalt-Chrome milled	
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## cara I-Bridge regular

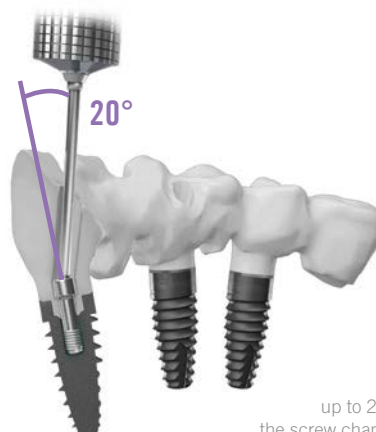
The superstructure in the version with straight screw channels is available in cobalt-chrome and titanium. cara I-Bridge regular can be adapted with spacer sleeves or – if the implant is already well positioned – placed at implant level. The screw connection directly with the implant is not only exceptionally effective and cost-efficient, but also highly recommendable from an aesthetic perspective.



cara I-Bridge angled by Zahnkreation Wolfgang Sommer.

## cara I-Bridge angled

Only cara has the original! cara I-Bridge angled is based on the patented production process with angled screw channels. It is an accurately produced implant bridge made of titanium or cobalt-chrome with the possibility of angling the screw channels by up to 20°. This ensures optimal positioning of the implant bridge without cost-intensive abutments and thus makes cara I-Bridge angled a cost-efficient and aesthetically pleasing solution.



cara I-Bridge angled:  
up to 20° more flexible thanks to  
the screw channel which can be angled.

## 6.3 IMPLANT PROSTHETICS

CARA I-BAR

cara

**cara I-Bar®.****Stress-free and accurate fit.**

The cara I-Bar is our answer to your desire for a reliable primary structure for a dental restoration that can be removed under certain conditions. To ensure a stress-free fit, cara I-Bar is produced from a block of cobalt-chrome or titanium. The dental restoration is suitable for a wide range of indications and leading implant systems, can be individually designed and can be adjusted to reflect the natural contours of the gingiva. The CAD design process remains in your hands: simply use the standardised or custom-designed bar and adjust it to fit the patient. You can include a range of different types of attachments and are not limited by the number of implants per jaw.



Titanium

Cobalt-Chrome  
milled**cara I-Bar regular**

The individually produced CAD/CAM bars already offer you a wide range of application possibilities in the cara I-Bar regular version. The bars can be screwed on any number of implants – on common implant systems and for every patient case.

**cara I-Bar angled**

All the knowledge of cara production is used to ensure an accurate fit and optimal precision. The patented possibility of angling the screw channel by up to 20° ensures longer-lasting friction surfaces and also offers you increased flexibility.



Bar work on six implants  
in the mandible.



The bar is divided into three parts  
for simpler cleaning.



The finished piece rotated  
laterally to the left.



The primary structure is  
optimally adjusted to the natural  
contours of the gingiva.

## 6.3 IMPLANT PROSTHETICS

CARA YANTALOC

**cara YantaLoc®.****Stable grip for dental restorations.****Zr**

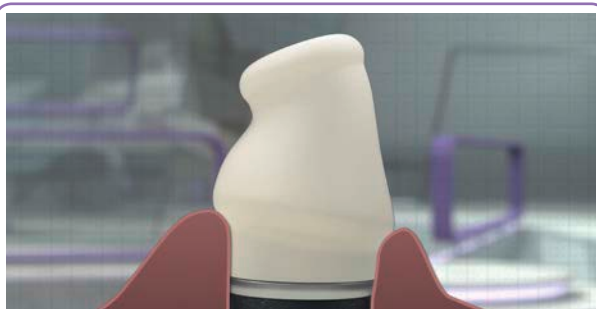
Provide a stable grip and minimise the risk of periimplantitis: cara YantaLoc can do both! The patent-pending connection comprising of a screw retained Titanium base with an angled zirconium dioxide structure and an attachment function allows users to fix removable dental restorations to implants safely. The smooth zirconium dioxide surface prevents wear of the retention elements in the matrix: That makes regular replacement unnecessary and your patients can bite down hard for longer.

The structure is made of zirconium dioxide and offers excellent soft tissue integration and pseudoadhesion of the gingiva, less plaque and lower bacterial deposits than on metallic abutments. Alloy-triggered allergies can be ruled out with high performance ceramics. Cleaning is simple too: even with a regular toothbrush.

YantaLoc can be used on a wide range of standard implant systems. Thanks to five different angulations from straight to 20° and the slim construction, even difficult implant positions can be easily compensated. With their tooth-like colour, the ceramic structure creates a thoroughly aesthetic effect in the mouth.



cara YantaLoc in five different angulations: 0°, 5°, 10°, 15° and 20°.



Excellent soft tissue integration and aesthetic appeal.



Bonding of the zirconium dioxide structure on a titanium base and subsequent screw connection in the practice.

## 6.4 CROWN AND BRIDGE PROSTHETICS

CARA CROWNS, BRIDGES AND MORE

cara



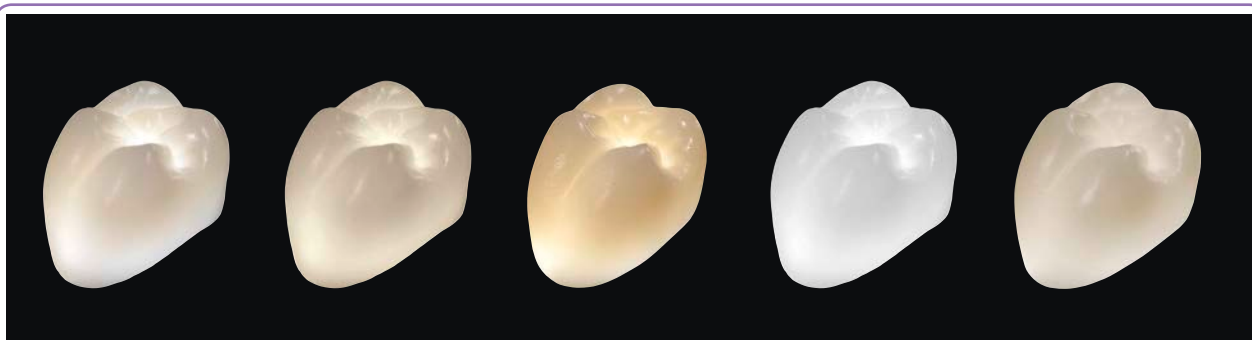
cara Crowns, Bridges and more.

Always the right material.

## cara translucent zirconium dioxide

**Zr<sub>tr</sub>**

The translucent zirconium dioxide from cara can be used to produce monolithic crowns and bridges constructions cost-effectively and to produce optically appealing frames for customised ceramic veneering. The extremely high translucency and tooth-coloured shading make the material a cost-effective alternative to non-precious metal all-cast crowns – especially in the posterior dental region. In combination with HeraCeram Universal stains in paste form and HeraCeram Zirkonia ceramics, you can produce aesthetic prostheses for every indication. cara 5-Year Warranty offers you and your patients additional security.



From left to right: cara translucent zirconium dioxide in transmitted light in the colour spectra light, medium and intensive as well as white WS and B-medium WS.

## cara lithium disilicate

**LiSi<sub>2</sub>\***

The cara lithium disilicate complements the all-ceramic product range for high-quality single-tooth restorations. The fact that they are made from the tried-and-tested IPS e.max® CAD blanks from Ivoclar Vivadent and the sophisticated and specially adapted grinding strategy ensures that you receive LiSi<sub>2</sub> in outstanding cara quality. The 3Shape DentalDesigner™ software allows you to design inlays and onlays as well as cutback and fully anatomical crowns simply and efficiently. You then receive the products you require back from the cara Production Centre in an uncrystallised state – and can personalise them as required.



From left to right: completed restoration, finished with HeraCeram LiSi<sub>2</sub>.

\* cara LiSi<sub>2</sub> frames are made of well-proven IPS e.max® CAD blanks by Ivoclar Vivadent.

## 6.4 CROWN AND BRIDGE PROSTHETICS

CARA CROWNS, BRIDGES AND MORE

## cara polymethyl methacrylate



Tried-and-tested quality from cara. The tooth-coloured polymethyl methacrylate acrylics in the two colours cara Temp PMMA light and cara Temp PMMA medium are ideal tools for laboratory fabricated temporary restorations. They can be designed simply and produced cost-effectively. The accurately fitting production makes them the first choice for long-term temporaries too. The residue-free, burn-out plastic cara Cast PMMA is exclusively approved for extraoral use and is perfect for the production of crowns and bridges using the press-to or casting techniques.



From left to right: cara temporary restorations in the colours PMMA light and PMMA medium.

## cara cobalt-chrome



Save yourself extensive reworking! cara cobalt-chrome alloys are ceramic bonding alloys which are free from beryllium and cadmium and with which you can produce a smooth, ready-to-veneer frame with no trouble at all. The CoCr frameworks manufactured with the selected laser melting (SLM) additive production process are as homogeneous and accurately fitting as perfectly cast non-precious metal crowns and bridges. The layered build up offers maximum design freedom and allows precise fabrication of delicate structures. The subtractive milling process for framework structures, telescopes and fully anatomic units is characterised by its extremely smooth surfaces. 10-year cara guarantees are included with both versions.



Excellent fit (CoCr SLM).



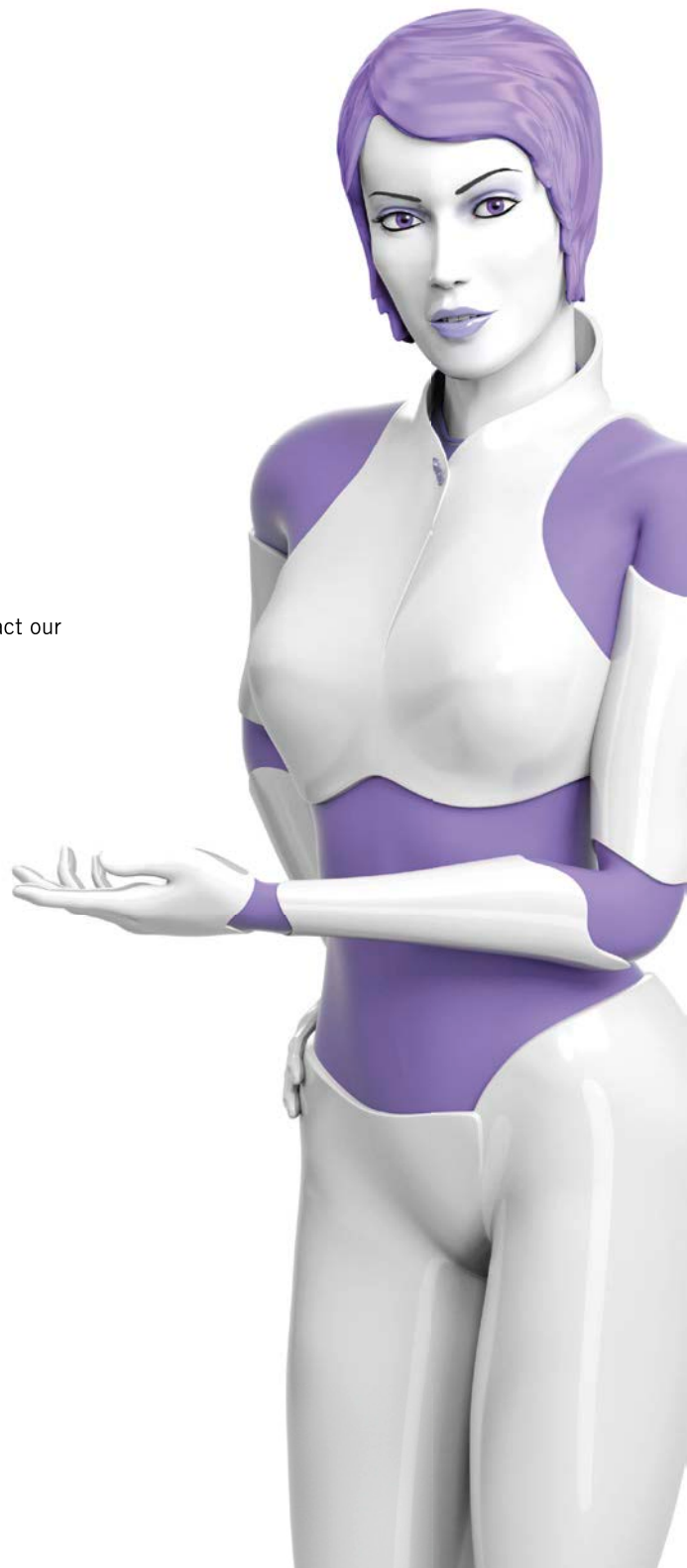
Very smooth and shiny surface (CoCr milled).



## cara has a lot more to offer you!

Find out more about your possibilities on our website. Or contact our local sales representatives in your country.

[www.cara-kulzer.com](http://www.cara-kulzer.com)



# PERFECT DIAGNOSTIC IMAGE QUALITY

The Agfa Dentus range comprises intra-oral and extra-oral X-ray films. It is supported by suitable intensifying screens, film cassettes for extra-oral exposures and processing chemicals.

The X-ray films for intra-oral and extra-oral applications are available in all the standard formats used in practices. All the Agfa Dentus X-ray films provide high image quality at a low radiation dose.

Agfa Dentus Duplicating film is available for making copies of extra-oral X-ray exposures for patients, dentists continuing treatment, insurance companies and documentation purposes.

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X-RAY MATERIALS

**AGFA**



AGFA DENTUS®

**AGFA**



Giving a hand to oral health.

## 7.1 INTRAORAL X-RAY FILMS

### AGFA DENTUS M2 COMFORT

## AGFA DENTUS® M2 COMFORT – NOT JUST SAFE – COMFORTABLE TOO.

Agfa Dentus M2 Comfort is a supersensitive intra oral film in the Softopac with particularly high image quality and very low radiation dose requirement. The Agfa Dentus M2 Comfort is compatible with all customary X-ray units. It can be photo-chemically processed with all standard X-ray film chemicals manually, or by machine. When changing to M2 Comfort no additional acceptance test (in accordance with X-ray ordinances) is necessary. Agfa Dentus D, E and E/F films are not only safe but are also comfortable for the patients due to extra soft packaging.

#### Indications

- Universal intraoral film.
- For manual and automatic processing devices.

#### Benefits

- Easy diagnosis due to high contrast and high maximum density (well visible grey graduations).
- Prevention of camera shakes due to short operation times.
- Softopac with soft film edges.
- Extra soft plastic, saliva resistant and easily disinfected.
- Primary packaging guarantees safe handling even in the darkroom.
- Universal processing indication.
- Long storage life: archiving ensured for up to 30 years.
- Low base misting/fog value.



## PRODUCT OUTLINE

Product	Contents	Art. code
<b>E/F-SPEED X-RAY FILMS</b>		
3 x 4 cm, Single film	150 x 1 sheets	<b>6541 4615</b>
2 x 3 cm, Single film	100 x 1 sheets	<b>6503 1124</b>
<b>D-SPEED X-RAY FILMS</b>		
3 x 4 cm, Single film	150 x 1 sheets	<b>6600 9817</b>
2 x 3 cm, Single film	100 x 1 sheets	<b>6600 9814</b>
<b>E/F-SPEED X-RAY FILMS</b>		
3 x 4 cm, Double film	150 x 2 sheets	<b>6541 4623</b>
2 x 3 cm, Double film	100 x 2 sheets	<b>6503 1256</b>
<b>D-SPEED X-RAY FILMS</b>		
3 x 4 cm, Double film	150 x 2 sheets	<b>6600 9818</b>
2 x 3 cm, Double film	100 x 2 sheets	<b>6600 9815</b>
<b>E/F-SPEED X-RAY FILMS</b>		
5 x 7 cm, Single film	25 x 1 sheets	<b>6587 0955</b>

## 7.2 EXTRAORAL X-RAY FILMS

AGFA DENTUS ORTHOLUX/RP6/DUPLICATING

**AGFA**

### AGFA DENTUS® ORTHOLUX/RP6/DUPLICATING – FOR HIGHEST DIAGNOSTIC DEMANDS.

Agfa Dentus Ortholux is an orthochromatic (green sensitive) extra-oral film for highest brilliance and resolution of detail which can be combined with all commercial green-sensitive intensifying screens e.g. Agfa Dentus Ortho. Thanks to modern crystal and emulsion technology Agfa Dentus Ortholux guarantees excellent image properties at low dose of radiation.

Agfa Dentus Duplicating is a copy film to duplicate X-ray films at an equal tonal value.

#### Indications

- Panorama layer exposures.
- Cephalometry.
- Mandibular joint examinations.
- Hemimandible technique.

#### Benefits

##### Agfa Dentus Ortholux

- Extremely sharp.
- Finest resolution of detail.
- Brilliant imaging due to particularly clear blue layer and high contrast.
- Very fine grained picture for homogeneous overall picture.
- Exceptionally low misting at high storage stability.
- Distinct processing stability.

##### Agfa Dentus Duplicating

- Extremely high copying clarity.
- Optimal contrast.
- High precision reproduction.
- UV- and white light sensitive.
- For processing in established developing units.



### PRODUCT OUTLINE

Product	Contents	Art. code
<b>ORTHOLUX</b>		
12.7 x 30.5 cm	100 sheets	<b>6600 0311</b>
15 x 30 cm	100 sheets	<b>6600 0312</b>
18 x 24 cm	100 sheets	<b>6600 0313</b>
8 x 10 inch	100 sheets	<b>6600 0314</b>
15 x 30 cm, Register	100 sheets foldable for archiving	<b>6600 2380</b>
<b>DUPLICATING</b>		
12.7 x 30.5 cm	100 sheets	<b>6503 8641</b>
15 x 30 cm	100 sheets	<b>6503 8668</b>

## AGFA DENTUS® FILM CASSETTES & INTENSIFYING SCREENS – EASY TO USE – RELIABLE DIAGNOSIS.

Agfa film cassettes have a patented magnetic press proof system which ensures a strong and homogeneous film/foil contact and this way guarantees highest image sharpness. The very low rate of radiation absorption by the plastic used ensures that radiation exposure to the patient is kept at a minimum. The special protective coating of the intensifying screens leads to distinct reduction of scattered radiation and thus to even sharper picture results.

### Benefits

- Patented magnetic press proof system between foils and film
- An integrated film-indicator shows whether there is a film in the cassette.
- Long-life due to non-sensitive, impact and scratch resistant plastic casing.
- Dimensions in accordance with standard regulations (15 x 30 cm).



## PRODUCT OUTLINE

Product	Contents	Art. code
<b>AGFA DENTUS ORTHOLUX FILM CASSETTES REGULAR 400</b>		
15 x 30 cm	green-sensitive, class 400 Intensifying Screen	<b>6600 2011</b>
18 x 24 cm	green-sensitive, class 400 Intensifying Screen	<b>6600 2013</b>
8 x 10 inch	green-sensitive, class 400 Intensifying Screen	<b>6600 2014</b>
<b>AGFA DENTUS ORTHO INTENSIFYING SCREENS MEDIUM 200</b>		
15 x 30 cm	green-emitting, class 200	<b>6576 9898</b>
<b>REGULAR 400</b>		
12.7 x 30.5 cm	green-emitting, class 400	<b>6576 9855</b>
15 x 30 cm	green-emitting, class 400	<b>6576 9847</b>
18 x 24 cm	green-emitting, class 400	<b>6576 9839</b>
8 x 10 inch	green-emitting, class 400	<b>6503 8129</b>



## AGFA DENTUS® /X-RAY CHEMICALS – OPTIMAL PROCESSING.

The combination of Agfa Dentus developer and Agfa Dentus fixer ensures qualitative high-grade images for intraoral and extraoral technique.

### Indication

- For manual processing and hand-basin units.

### Benefits

- Colour coding for developers and fixers.
- Dosage assistance on 1-Litre bottle.
- Free from glutaraldehyde.
- Easy solution preparation for optimal processing.
- Customized pack sizes (1 litre and 125 ml).
- Fully recycleable polyethylene container.



## PRODUCT OUTLINE

Product	Contents	Art. code
<b>DEVELOPER</b>		
D Developer Concentrate	10 x 125 ml, 10 units = 10 x 500 ml solution, for dish development	6569 4510
D-1000 Developer Concentrate	1.000 ml, 1 litre = 5.500 ml solution, for tank development	6528 2194
<b>FIXER</b>		
F Concentrate Fixer	10 x 125 ml Fixer, 10 units = 10 x 500 ml solution, for dish development	6569 4502
F-1000 Fixer Concentrate	1.000 ml, 1 litre = 5.500 ml solution, for tank development	6528 2259
<b>MINI DARKROOM</b>		
Mini Darkroom	For manual development of intraoral X-ray films with Agfa Dentus D&F chemicals without darkroom and without electric connections in the dental office	6601 0083



## HERA FOR GOOD REASONS.

Whether for crowns and bridges or model casting, a precisely fitted dental cast is based on an accurate model. Our materials for model fabrication deliver the best prerequisites for optimal results to you down to the smallest detail. Easy, reliable application and first class physical properties. Our dental plasters occupy the leading position in the market: They are developed, optimised and processed to the highest possible level. Our products for model fabrication, such as pin systems, Splitcast systems and insulating agents are perfectly matched. Profit from our many years of experience with materials.

### 8 LABORATORY PRODUCT LINE

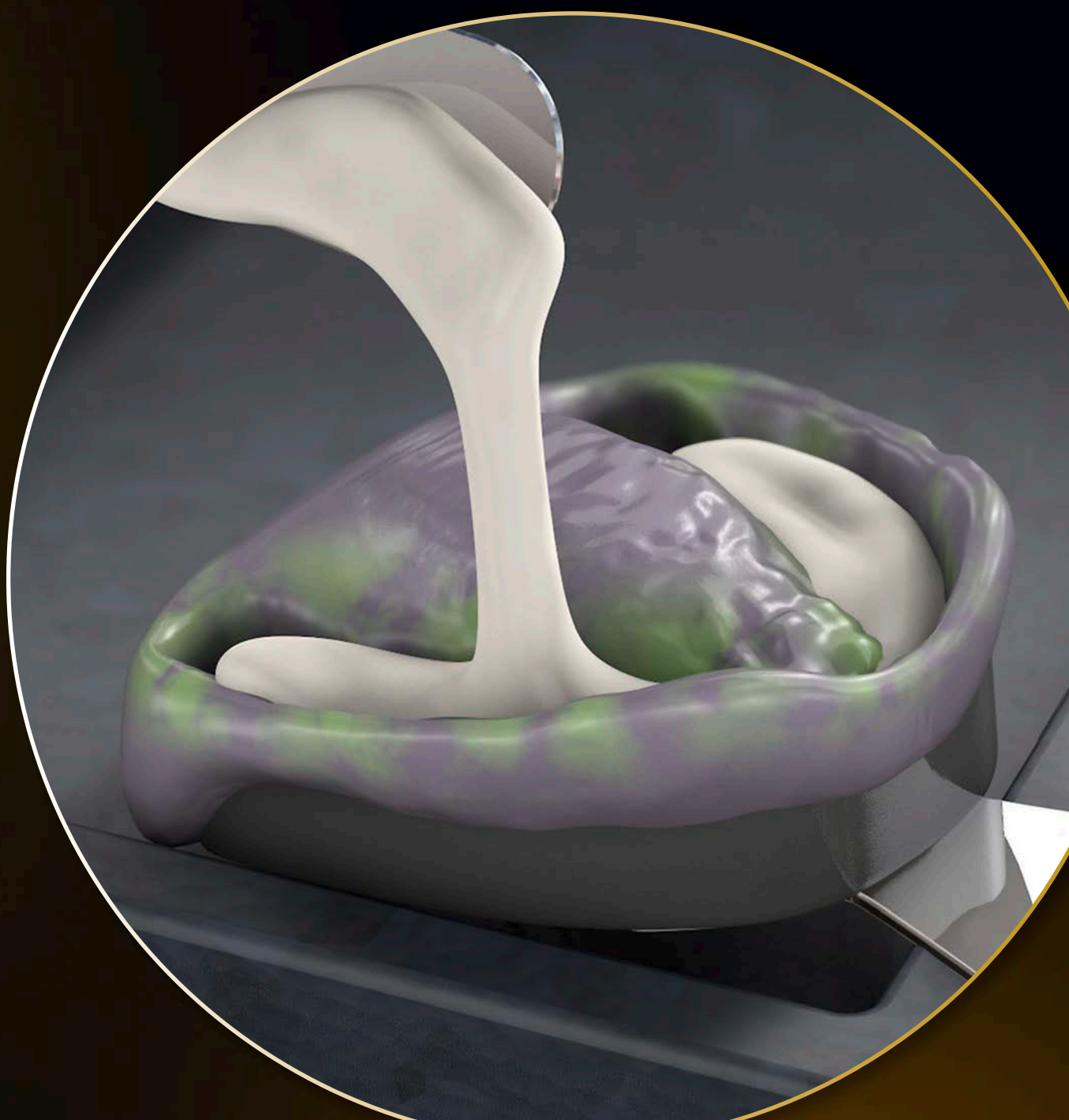
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	Heravest Press	156
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# Heraeus Kulzer

Mitsui Chemicals Group

LABORATORY PRODUCT LINE







Giving a hand to oral health.

## 8.1 ARTICULATING / ALABASTER PLASTERS

MOLDAFIX / MOLDABASTER

### MOLDAFIX® / MOLDABASTER® — THE RELIABLE PLASTERS.

Our Type 2 hard plasters MOLDABASTER and MOLDAFIX offer maximum product stability and reliability – developed in co-operation with the manufacturer.

Moldabaster is a multi-purpose alabaster plaster. It is noted for good flow properties and optimum wettability. Mix Moldabaster with Type 3 Moldadur for investment of prosthetics with the acrylic technique. With its short setting times and the option of fast mixing, Moldabaster supports efficient processing. MOLDAFIX is an articulation plaster with very low expansion and permanent dimensional stability.

#### Benefits at a glance:

- very good flow properties
- good wettability
- can be mixed with Moldadur
- for investment of prosthetics in the acrylic technique
- fast mixing and fast setting

### MOLDAFIX ARTICULATION PLASTER, TYPE 2

MOLDAFIX is an articulation plaster with very low expansion < 0.03 %. It is suitable for the fixing/securing of models in articulators and for the production of matrices and milling sockets.

#### Indications:

- Fixing/securing models in articulators
- Production of matrices
- Production of milling sockets

#### Benefits:

- Immediate fixation, no positional displacement
- Extremely low expansion
- Long lasting dimensional stability
- Individualised processing time, controlled by the addition of water



#### Technical specifications for MOLDAFIX

Shade	white
Delivery form	25 kg fleece sack
Mixing ratio	100:28–30
Mix and stir in a vacuum	30 sec
Working time	3 min
Setting time	4 min
Demoulding	---
Compressive strength after 1 hour	18
Setting expansion after 2 hour	0.03

## MOLDABASTER ARTICULATION PLASTER, TYPE 2

MOLDABASTER is a multi-purpose alabaster plaster, distinguished by its good flow behaviour and optimal wettability.

### Indications:

- Investment using acrylic technique (in combination with MOLDAMOL)
- Production of documentation models in orthodontics
- Production of matrices
- Production of anatomical models

### Benefits:

- very good flow properties
- good wettability
- Can be mixed with MOLDAMOL and MOLDADUR for investment of prosthetics in the acrylic technique
- fast mixing and fast setting



### Technical specifications for MOLDABASTER

Shade	white
Delivery form	25 kg fleece sack
Mixing ratio	100:45-55
Mix and stir in a vacuum	30 sec
Working time	4 min
Setting time	10 min
Demoulding	30 min
Compressive strength after 1 hour	8
Setting expansion after 2 hour	0.14

## PRODUCT OUTLINE

Product	Contents	Art. code
<b>MOLDAFIX DELIVERY FORM</b>		
Moldafix Special Plaster	Shade: white, 25 kg sack	6601 4771
Moldafix	Shade: white, 25 kg sack, cardboard	6602 2400
<b>MOLDABASTER DELIVERY FORM</b>		
Moldabaster Shade: White	16 kg (4 x 4 kg)	6505 5362
Moldabaster	Shade: white, 25 kg sack	6516 8983
Moldabaster	Shade: white, 25 kg sack, cardboard	6602 2397
Moldabaster S	The fast set formulation of Moldabaster, Shade: white, 25 kg sack	6516 9025
Moldabaster S	The fast set formulation of Moldabaster, Shade: white, 25 kg sack, cardboard	6602 2396



## MOLDANO® / MOLDADUR® — STRESS FREE PRECISION.

Our Type 3 hard plasters MOLDAMOL and MOLDADUR offer maximum product stability and reliability – developed in co-operation with the manufacturer.

We use only high-quality raw materials that are ground a second time with a ball mill to manufacture hard modelling plaster. This gives our Type 3 Moldamol and Moldadur plasters their special properties.

#### Benefits at a glance:

- perfect processing consistency
- high compatibility with alginate impressions
- very good stackability
- very good sculpting characteristics

## MOLDADUR HARD PLASTER, TYPE 3

#### Indications:

- Working, opposing, situation and repair models for full and partial prosthetics.

#### Benefits:

- perfect processing consistency
- Very good compatibility with alginate impressions
- very good stackability
- Suitable for casting up to 6 basing arches
- very good sculpting characteristics
- Perfectly adjusted setting expansion on par with Type 4 plasters (0.08 % with excellent dimensional stability)



#### Technical specifications for MOLDADUR

Shade	yellow, blue
Delivery form	25 kg fleece sack
Mixing ratio	100:30
Mix and stir in a vacuum	30 sec
Working time	6 min
Setting time	12 min
Demoulding	45 min
Compressive strength after 1 hour	32
Setting expansion after 2 hour	–



## MOLDA HARD PLASTER, TYPE 3

### Indications:

Working, opposing, situation and repair models for full and partial prosthetics.

### Benefits:

- perfect processing consistency
- Very good compatibility with alginate impressions
- very good stackability
- Suitable for casting up to 4 basing arches
- very good sculpting characteristics



### Technical specifications for MOLDA

Shade	blue
Delivery form	25 kg fleece sack
Mixing ratio	100:30
Mix and stir in a vacuum	30 sec
Working time	4 min
Setting time	7 min
Demoulding	30 min
Compressive strength after 1 hour	30
Setting expansion after 2 hour	0.16

## PRODUCT OUTLINE

Product	Contents	Art. code
<b>MOLDANO DELIVERY FORM</b>		
Blue	25 kg sack	<b>6511 3526</b>
Blue	25 kg sack, cardboard	<b>6602 2411</b>
Blue	18 kg carton (4.5 kg bag)	<b>6587 0394</b>
Blue	4.5 kg bag	<b>6587 0882</b>
White	18 kg (4 x 4.5 kg)	<b>6604 1806</b>
White	25 kg sack	<b>6535 0226</b>
White	25 kg sack, cardboard	<b>6602 2413</b>
Yellow	25 kg sack	<b>6601 4741</b>
Yellow	25 kg sack, cardboard	<b>6602 2412</b>
<b>MOLDADUR DELIVERY FORM</b>		
Blue	25 kg sack	<b>6505 2563</b>
Blue	25 kg, cardboard	<b>6602 2398</b>
Yellow	25 kg sack	<b>6601 4742</b>
Yellow	25 kg sack, cardboard	<b>6602 2399</b>
Yellow	18 kg carton (4 x 4.5 kg bag)	<b>6605 5361</b>

## 8.3 TYPE IV – SUPERHARD PLASTER

### DENTAL STONES TYPE 4

## DENTAL STONES TYPE 4















Our Type 4 super hard plasters offer maximum product stability and reliability – developed in co-operation with the manufacturer.

Our super hard plasters MOLDASTONE, MOLDAROCK and MOLDASUPERROCK are based on high-quality raw materials. For the user this means first-class materials with optimum physical properties.

Our Type 4 super hard plasters are suitable for all high-quality prosthetic indications, such as saw-cut models, models for model casting, implantology, electroforming, master models for crowns and bridges, and inlays and onlays. The right plaster for every requirement.

#### Benefits at a glance:

- high compression strength for durable surfaces.
- outstanding long-term dimensional stability, consistently low setting expansion.
- excellent compatibility with all impression materials.
- For all indications, self-curing acrylic.

Dental plasters							
	<b>Moldastone CN</b> grey/light brown/ champagne/ peach/ green and pink Type 4	<b>Moldasynt</b> light brown Type 4	<b>Moldastone</b> light brown Type 4	<b>Moldafix</b> white Special plaster (Articulation)	<b>Moldabaster/ Moldaster S</b> white Type 2	<b>Moldano</b> blue/yellow/ white Type 3	<b>Moldadur</b> blue/yellow Type 3
Grad der Tixotropie							

Very pronounced thixotropy  Pronounced thixotropy  Low thixotropy  Soft consistency 

### 8.3 TYPE IV – SUPERHARD PLASTER

MOLDASTONE

Hera®

#### MOLDASTONE® — THE FLEXIBLE SUPER HARD PLASTER.

Moldastone is a type IV-super hard plaster with thixotropic properties. It becomes liquid under the influence of mechanical interactions such as stirring, shaking or ultrasonic exposure and becomes firm in resting stage and facilitates mounting of dental arches.

Moldastone flows into the smallest spaces by itself. Since trapped air bubbles are promoted on the surface of the low viscosity material during vibration, models made from Moldastone are bubble free and have very precise detail. Moldastone is available in light brown.

##### Indications

- For master models in crown, bridge, inlay/onlay and partial prosthetics.
- Opposing models.
- Galvano technique.

##### Benefits

- Very pronounced thixotropy.
- Smooth-flow consistency.
- Extended working phase makes it possible to pour up to 3 impressions.
- High dimensional stability.
- Low expansion.
- Quick hardening at the end of working phase.
- Bubble-free, precisely detailed models.



## PRODUCT OUTLINE

### MOLDASTONE DELIVERY FORM

#### Light Brown

##### Contents

18 kg carton  
(4 x 4.5 kg bags)\*

##### Art. code

6587 0408

\* Available in single 4.5 kg bags from your dental products dealer!



### 8.3 TYPE IV – SUPERHARD PLASTER

MOLDASTONE CN/MOLDASYNT

## MOLDASTONE® CN / MOLDASYNT® — THE FLEXIBLES – PRECISE, EXTRA-HARD AND SYNTHETIC.

The super hard type IV plaster Moldastone CN mixes and processes excellently. It has very good flow properties and remains dimensionally stable even after a long period of time. Models made from Moldastone CN are bubble free and have very precise detail. Moldastone CN is available in pink, green, light brown, peach, grey and champagne.

Moldasynt is a synthetic type IV-super hard plaster. Due to its thixotropy Moldasynt is particularly recommended for partial denture works. Moldasynt is available in light brown.

#### Indications

##### Moldastone CN

- For master models in partial denture, crown, bridge and inlay/onlay techniques.
- Opposing models.
- Bases for sectioned models.

#### Benefits

##### Moldastone CN

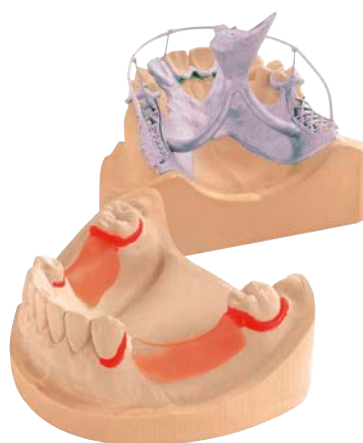
- Thixotropic.
- Very good mixing properties.
- Can also be mixed manually.
- Excellent low expansion (< 0.1%).
- Great choice of colours.
- Flows very easily in the impressions.
- Bubble free, precisely detailed models.
- Pleasant, shear thinning consistency.

##### Moldasynt

- For master models in partial denture, crown, bridge and inlay/onlay techniques.
- Opposing models.
- Sectioned model bases.

##### Moldasynt

- High dimensional accuracy.
- Low expansion (0.1%).
- Variable mixing ratio means the processing time and consistency can be individually set.
- Efficient job handling, can be mixed for a single model or up to 3 models.
- Excellent edge stability, hardness and abrasion resistance especially recommended for partial denture works.
- High fracture resistant during devestment.
- Very high surface hardness.
- Thin flowing during vibration.
- Flows easily into impressions.
- Bubble free, exact detailed models.
- Pleasant, shear thinning consistency.



## PRODUCT OUTLINE

### MOLDASTONE CN DELIVERY FORM

#### Green

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6601 4743



#### Pink

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6601 4744



#### Light Brown

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6601 4745



#### Peach

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6602 0492



#### Grey

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6602 0493



#### Champagner

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6602 0494



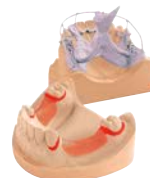
### MOLDASYNT DELIVERY FORM

#### Light Brown

##### Contents

18 kg carton  
4 x 4.5 kg bags\*

Art. code 6587 0807



\* Available in single 4.5 kg bags from your dental products dealer!

8

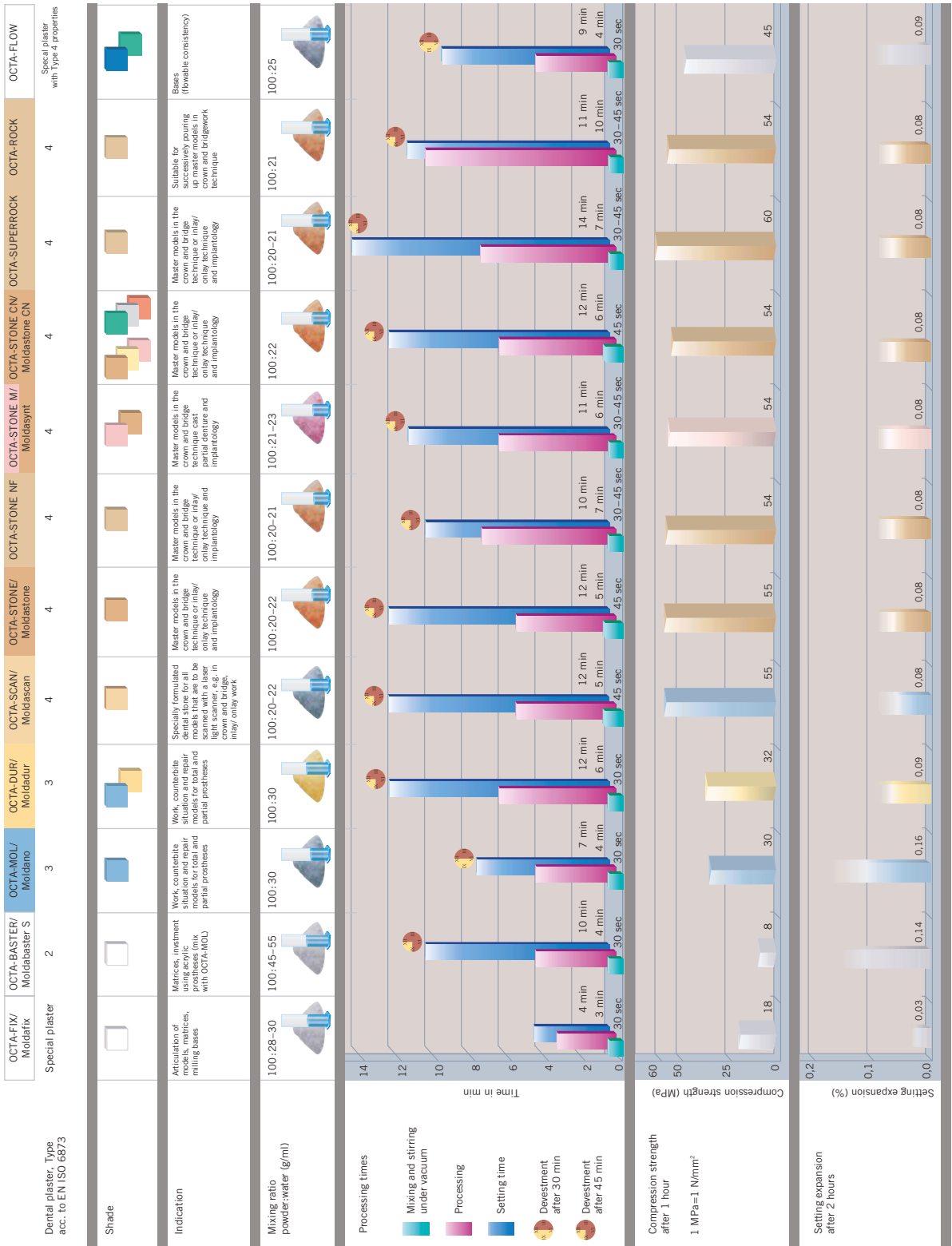
LABORATORY PRODUCT LINE

8.3

TYPE IV – SUPERHARD PLASTER

MOLDA PLASTERS

MOLDA PLASTERS: TECHNICAL DATA AND PROCESSING INSTRUCTIONS



[illegible]



## 8 LABORATORY PRODUCT LINE

### 8.4 INVESTMENT MATERIALS

#### COLOUR CODE

## COLOUR CODE

#### Colour-coded and unmistakable

So you can completely concentrate on your work, there is now a **simple colour-coding** for all investment materials. Each product comes with a colour bar from which you can immediately identify which material it is.

	Heravest Press
	Heravest Speed
	Moldavest master run
	Moldavest master
	Moldavest futura
	Moldavest exact
	Heravest Premium 2
	Levotherm
	Neo Durotherm



## 8 LABORATORY PRODUCT LINE

### 8.4 INVESTMENT MATERIALS

MOLDAVEST FUTURA/MOLDAVEST EXACT

Hera®

## MOLDAVEST® FUTURA/MOLDAVEST® EXACT – CROWNS AND BRIDGES INVESTMENT MATERIAL FOR ALL PRECIOUS METAL AND NON PRECIOUS METAL ALLOYS.

### Moldavest futura

Moldavest futura is a phosphate bound, graphite-free, precious metal investment material for crowns and bridges. Moldavest futura is suitable for fast heating and also for classic, program controlled pre-heating process. Moldavest futura has proved itself in extensive field tests and has an excellent flow properties. With Moldavest futura even in difficult situations excellent fits with super-smooth, crack-free surfaces can be produced.

### Moldavest exact

Moldavest exact is a phosphate bound, graphite free non-precious metals investment material for crowns and bridges. Moldavest is suitable for fast heating and also for classic, program controlled pre-heating process. Thanks to its excellent flow properties with Moldavest exact, excellent fits and super-smooth, crack free surfaces can be attained even in difficult situations.

### Indications

#### Moldavest futura/Moldavest exact

- For crowns and bridges.

### Benefits

#### Moldavest futura

- Excellent flow properties.
- Excellent fit even in difficult situations.
- Super-smooth surface (less reworking-cracks minimised).

#### Moldavest exact

- Excellent flow properties.
- Excellent fits even in difficult situations.
- Super-smooth surfaces (less reworking-cracks minimised).



## 8 LABORATORY PRODUCT LINE

### 8.4 INVESTMENT MATERIALS

MOLDAVEST FUTURA/MOLDAVEST EXACT

#### PRODUCT OUTLINE

Product	Contents	Art. code
<b>MOLDAVEST FUTURA DELIVERY FORM</b>		
Moldavest futura	35 x 160 g bags (5.6 kg) without Liquid	<b>6600 9780</b>
Moldavest futura	75 x 60 g bags (4.5 kg) without Liquid	<b>6601 3511</b>
<b>MOLDAVEST EXACT DELIVERY FORM</b>		
Moldavest exact	35 x 160 g bags (5.6 kg) without Liquid	<b>6600 9785</b>
Moldavest exact	75 x 60 g bags (4.5 kg) without Liquid	<b>6601 3500</b>
<b>MOLDAVEST FUTURA LIQUID</b>		
Investment BS Liquid 2	900 ml bottle	<b>6601 9996</b>
Investment BS Liquid 2	3-litre canister	<b>6601 9997</b>
Investment BS Liquid 2	10-litre canister	<b>6601 9998</b>
For telescope and cone jobs		
Investment BS Liquid 1	900 ml bottle	<b>6601 9993</b>
Investment BS Liquid 1	3-litre canister	<b>6601 9994</b>
Investment BS Liquid 1	10-litre canister	<b>6601 9995</b>
<b>MOLDAVEST EXACT LIQUID</b>		
Investment BS Liquid 1	900 ml bottle	<b>6601 9993</b>
Investment BS Liquid 1	3-litre canister	<b>6601 9994</b>
Investment BS Liquid 1	10-litre canister	<b>6601 9995</b>
A special liquid for obtaining higher expansion in investment materials		
Spezial BS Liquid 3	900 ml bottle	<b>6602 0131</b>

## 8 LABORATORY PRODUCT LINE

### 8.4 INVESTMENT MATERIALS

#### NEO DUROTHERM 7

**Hera®**

## NEO DUROTHERM® 7 — FOR PRECIOUS METAL CASTING.

Neo Durotherm 7 is a gypsum bound, graphite free C&B precision investment material for precious metal casting. It has an easily controlled expansion and flows into wax patterns well thanks to its creamy consistency. Neo Durotherm 7 can be devested under running water. Thanks to its particularly smooth surface Neo Durotherm 7 sandblasting is not necessary.

#### Indication

- For all gold alloy investments up to 700°C.

#### Benefits

- Controllable total expansion.
- Creamy consistency for good flowing in all wax patterns.
- Easily devested under running water.
- No sandblasting necessary.
- Particularly well suited to Inlay/Onlay work.
- Particularly smooth surfaces.

## PRODUCT OUTLINE

### NEO DUROTHERM 7

#### Neo Durotherm 7

##### Contents

4 bags of 4.2 kg (16.8 kg)

##### Art. code

**6587 1277**



## 8.4 INVESTMENT MATERIALS

## MOLDAVEST MASTER/MOLDAVEST MASTER RUN

## MOLDAVEST® MASTER/MOLDAVEST® MASTER RUN – PRECISION INVESTMENT MATERIALS FOR TOTAL AND PARTIAL DENTURE.

Moldavest master is a phosphate bound, graphite free precision investment material for partial denture techniques in cobalt-chromium (CoCr) and precious metal. It is particularly suitable for silicone and also gel duplication and is used in the classic, program controlled pre-heating process. Moldavest master has particularly good flow properties and leads to excellent fits with smooth surfaces. When using Moldavest master, Heraform-silicone duplicating materials with a shore hardness between 20 and 26 is recommended.

Moldavest master run is a phosphate bound, graphite free precision investment material for partial denture techniques in cobalt-chromium (CoCr) and precious metal. Moldavest master run is suitable for silicone duplicating and can be heated up quickly, so the muffle can be put directly into the furnace which has been pre-heated to the final temperature. With Moldavest master run excellent fits with particularly smooth surfaces can be achieved.

**Indication****Moldavest master**

- For partial denture technique.
- Silicone and gel duplication.
- Classic, program controlled pre-heating process.

**Moldavest master run**

- For total casting technique.
- Only silicone duplication.
- Fast heating process.

**Benefits****Moldavest master**

- Excellent flow properties.
- Excellent fits.
- Smooth surfaces.

**Moldavest master run**

- Smooth surfaces.
- Excellent fit.
- Excellent flow properties.



## PRODUCT OUTLINE

Product	Contents	Art. code
<b>MOLDAVEST MASTER</b>		
Moldavest Master	45 bags at 450 g (20, 25 kg) without Liquid	<b>6600 9782</b>
<b>MOLDAVEST MASTER RUN</b>		
Moldavest master run	45 bags at 450 g (20, 25 kg) without Liquid	<b>6600 9783</b>
<b>MOLDAVEST LIQUID</b>		
Investment BS Liquid 1	900 ml bottle	<b>6601 9993</b>
Investment BS Liquid 1	3-litre canister	<b>6601 9994</b>
Investment BS Liquid 1	10-litre canister	<b>6601 9995</b>

## LEVOTHERM®/LEVOGEL® —

### THE SPECIALIST PARTIAL DENTURE INVESTMENT MATERIAL FOR GEL DUPLICATION.

Levotherm is a special partial denture investment material for gel duplication. It is suitable for classic, program controlled pre-heating process, is fast setting and results in clean, smooth cast object.

Levogel is an economic, reversible duplication gel for several duplications. It has good flow properties and is particularly precise. Levogel combines excellently with Levotherm.

#### Benefits

##### Levotherm

- Clean, smooth casting objects.
- Excellent fit.
- Fast setting.
- High degree of hardness.



##### Levogel

- Reversible.
- Re-usable.
- Good compatibility with Levotherm.
- Good flow properties.
- Sharp lines.
- Economic.



## PRODUCT OUTLINE

Product	Contents	Art. code
<b>LEVOTHERM</b>		
Levotherm	50 bags at 150 g (7.5 kg) without Liquid	<b>6587 2281</b>
Levotherm	20 bags a 450 g (9 kg) without Liquid	<b>6560 6484</b>
<b>LEVOGEL</b>		
Levogel	6 kg tub	<b>6560 6468</b>

8    LABORATORY PRODUCT LINE

8.4   INVESTMENT MATERIALS

HERAVEST PRESS

HERAVEST® PRESS —  
PRECISION INVESTMENT MATERIAL FOR PRESS CERAMIC.

Heravest Press is a phosphate bound, graphite-free precision investment material for pressed ceramics. It is suitable for fast pre-heating, is easy to devest and results in excellent fits.

- Indications**
- Specially for press ceramics.
  - For fast heating.

- Benefits**
- Excellent fit.
  - High stability.
  - Easily devestment.



PRODUCT OUTLINE

Product	Contents	Art. code
HERAVEST PRESS		
Heravest Press	56 bags at 100 g (5.6 kg)	6602 0402
LIQUID		
Investment BS Liquid 1	900 ml bottle	6601 9993
Investment BS Liquid 1	3-litre canister	6601 9994
Investment BS Liquid 1	10-litre canister	6601 9995



## 8 LABORATORY PRODUCT LINE

### 8.4 INVESTMENT MATERIALS

#### HERAVEST PREMIUM 2

**Hera®**

## HERAVEST® PREMIUM 2 –

### PHOSPHATE BONDED, PRECIOUS METAL INVESTMENT MATERIAL FOR CROWN AND BRIDGEWORK.

Heravest Premium 2 is Phosphate bonded, graphite free precious metal investment material for crown and bridgework. Heravest Premium 2 is suitable for fast heating and also for classic, program controlled pre-heating process. Heravest Premium 2 has excellent flow properties, even in difficult situations excellent fits with super-smooth, crack-free surfaces can be produced.

#### Indication

- For crown and bridgework.

#### Benefits

- For Precious Alloys.
  - Casting Alloys 700 – 800°C.
  - Ceramic Bonding Alloys 850 – 950°C.
- Excellent flow properties.
- Excellent fit even in difficult situations.
- Super-smooth surface (less reworking-cracks minimised).
- For speed and conventional programmed preheating process.



## PRODUCT OUTLINE

### HERAVEST PREMIUM 2

#### Heravest Premium 2

##### Contents

5.6 kg carton,  
containing 35 x 160 g bags

**Art. code** 6602 1966

### LIQUID

#### Investment BS Liquid 2

##### Contents

900 ml bottle

**Art. code** 6601 9996

#### Investment BS Liquid 2

##### Contents

10l canister

**Art. code** 6601 9998

#### Investment BS Liquid 2

##### Contents

3l canister

**Art. code** 6601 9997

## 8 LABORATORY PRODUCT LINE

### 8.4 INVESTMENT MATERIALS

#### HERAVEST SPEED

## HERAVEST® SPEED –

### PHOSPHATE BONDED, PRECIOUS AND NON PRECIOUS METAL INVESTMENT MATERIAL FOR CROWN AND BRIDGEWORK.

Heravest Speed is Phosphate bonded, graphite free, precious and non precious metal investment material for crown and bridgework. Heravest Speed is suitable for fast heating pre-heating process.

#### Indications

- For crown and bridgework.

#### Benefits

- Extra-smooth surfaces.
- Highest precision.
- Precise fit casts.
- For speed preheating process.
- Suggested for the transfer technique  $900 > 700^{\circ}\text{C}$ .



## PRODUCT OUTLINE

### HERAVEST SPEED

#### Heravest Speed

##### Contents

5.6 kg carton  
containing 35 x 160 g bags

Art. code 6460 1514

#### Heravest Speed

##### Contents

20 kg carton  
containing 125 x 160 g

Art. code 6460 1151

#### Heravest Speed

##### Contents

4.5 kg carton  
containing 75 x 60 g bags

Art. code 6603 6741

### LIQUID

#### Investment BS Liquid 1

##### Contents

900 ml bottle

Art. code 6601 9993

#### Investment BS Liquid 1

##### Contents

3l canister

Art. code 6601 9994

#### Investment BS Liquid 1

##### Contents







10l canister

Art. code 6601 9995

# 8 LABORATORY PRODUCT LINE

## 8.4 INVESTMENT MATERIALS

**Hera®**

Type	C + B Precious Metal			C & B Precious Metal C & B NPM		C+B NPM	Cast partial denture			Pressed Ceramic
										
	Heravest Saphir/ Moldavest futura	Heravest Premium 2	Neo Durotherm 7* (plaster bonded)	Heravest Speed	Heravest Onyx/ Moldavest Exact		Heravest M/ Moldavest master	Heravest M 2000/ Moldavest master run	Levotherm	Heravest Press
Investment material according to EN ISO 15912										
<b>Heating method</b>										
Rapid heat-up										
Software guided heat-up										
<b>Indication range</b>										
Inlays										
Partial crowns										
Crown, small bridges										
Tapered crowns, telescope										
Large bridges										
Cast partial denture (NPM + PM)							Silicone + gel duplication	Silicone duplication	Gel duplication	
<b>Suitable sprue systems</b>										
Steel ring with liner										Silicone/card-board sheath
ring free				Recommended X1 to X6						
others				X1 to X9			Cast partial denture cuvette***	Cast partial denture cuvette***		
<b>Technical data (stirring, investment)</b>										
Mixing ratio (powder:liquid)	g/ml	100:22	100:22	100:25	100:22	100:18	100:14	100:22	100:22	
Mixing time under vacuum	sec	60	60	60	60	60	60	60	60	
Processing range, approx. at 22°C	min	7	6	5-6	7	4	3-4	4	6	
Setting start (Vicat)	min	9.5	8.5	9	9.5	5.5	3.5	5.5	9	
Flowability	mm	125-135	125-135	135-145	130-140	145-155	90-120	125-135	130-140	
Compression strength	MPa	3.0	4.0	6.0	4.0	15.0	20	14.0	4.0	
Therm. expansion, linear (equivalent to 75%)	%	1.0	1.05	1.10	0.95	0.9	1.2 (100%)	0.85	0.9	
*** Total expansion, linear (equivalent to 75%)	%	1.9	1.60	2.0	2.55	1.7	-	2.05	1.9	
<b>Preheating</b>										
Max. final temperature	°C	950	950	950	950	1030	1050	1030	850	
Max. setup temperature	°C	850	850	950	950	software guided	software guided	950-1000	850	
Recommendation for transfer technique	°C	-	-	900>700	-	-	-	-	-	

\* Phosphate-bonded investment material  
 \*\* Plaster-bonded investment material, heatable to 700°C (not suitable for high melting alloys – suited only for gold casting alloys)  
 \*\*\* Crepe-, plastic or silicone sheaths  
 All given values are mean values. More information on concentration control may be found in the specific user instructions.

# 8.5 TRAY MATERIAL, ISOLATION MATERIAL / LABORATORY SILICONE

PEKATRAY / OPTOSIL LIQUID

## PEKATRAY® / OPTOSIL® LIQUID –

### Pekatrax

Pekatrax is a cold polymerising synthetic resin for the manufacture of individual trays and base plates.

#### Liquid

##### Contents

1,800 ml

Art. code

6524 6461



#### Powder

##### Contents

1 kg

Art. code

6523 7004



#### Liquid

##### Contents

750 ml

Art. code

6523 7012



#### Powder

##### Contents

3.7 kg

Art. code

6524 6445



### Optosil Liquid

#### Optosil Liquid – for separating

Optosil is suitable for separating work when manufacturing partial and complete prosthetic synthetic work.

#### Liquid Assortment

##### Contents

1 bottle 850 g of Paste,  
1 bottle 25 ml Activator universal,  
1 x 500 g retention granules bottle,  
1 small mixing bowl,  
1 screw pipette,  
1 mixing pad

Art. code

6603 7715



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# 9.1 HERAEUS KULZER GMBH – GENERAL TERMS OF SALE AND DELIVERY 1/2013

## 1 Scope of Application

1.1 All sales, deliveries and services (hereinafter collectively the “Services”) of Heraeus Kulzer GmbH and its affiliated companies domiciled in Germany (“Heraeus Kulzer”) are exclusively subject to the following General Terms of Sale and Delivery. Customers’ general terms and conditions of business which deviate from these General Terms of Sale and Delivery or from the law will not be accepted, and they will also not become part of a contract if Heraeus Kulzer accepts or executes orders from the customer in awareness of the customer’s opposing or deviating terms and conditions of business.

## 2 Subject Matter and Scope of Services (Offers, Samples, Guarantees, Conclusion of Contracts)

2.1 All offers of Heraeus Kulzer are nonbinding and without engagement unless specifically agreed otherwise. Contracts shall be deemed concluded only after Heraeus Kulzer has issued a written order confirmation, effected delivery of the goods ordered or performed the Service. Heraeus Kulzer shall be generally under no obligation to verify the correctness of the information provided by the customer upon which Heraeus Kulzer’s offer or order confirmation is based, and Heraeus Kulzer shall also not be obligated to investigate if the execution of the customer’s order based on such information infringes any third-party property rights. The customer will be advised of all risks which are identified by Heraeus Kulzer.

2.2 The data and information included in data sheets, brochures and other promotional and information material of Heraeus Kulzer serve solely as a guideline and become a binding part of a contract only upon the express written consent of Heraeus Kulzer.

2.3 Characteristics and properties of samples and specimens are only binding if expressly so agreed.

2.4 Information about the quality, condition and (shelf-) life of products shall be deemed to be guarantees only if expressly designated as such. The same applies to the assumption of a procurement risk.

2.5 Unless otherwise agreed in writing, Heraeus Kulzer will deliver products within the tolerances admissible under the relevant German or European technical standards, in particular DIN, VDE, EN ISO or similar standards.

2.6 Technical changes which are required for manufacturing reasons, or which are necessary due to legislative changes, or which serve the product update and maintenance, shall be admissible if they are reasonable for the customer.

## 3 Delivery, Delivery Periods, Packaging, Passing of the Risk

3.1 The type and scope of Heraeus Kulzer’s Services and the delivery periods are determined by the written order confirmation of Heraeus Kulzer. Heraeus Kulzer shall be entitled to the partial performance of Services if this is reasonable for the customer.

If the customer wishes to call off portions of an agreed total quantity for delivery in several partial deliveries, the customer shall spread such call-offs evenly over the delivery period. The call-off of more than 10 % of the total quantity of one partial delivery on one date is subject to the prior written consent of Heraeus Kulzer.

3.2 The delivery period commences to run only after all issues which are essential for the performance of the contract have been clarified with the customer and after the customer has performed all essential acts incumbent on him which are required for the performance of the contract by Heraeus Kulzer. In particular, the delivery period does not commence to run until Heraeus Kulzer has received all information from the customer which is required to effect delivery, or until the customer has furnished proof that, if required, he has opened a letter of credit, effected prepayment or provided a security, as agreed in the contract. The delivery period will be interrupted by subsequent changes requested by the customer. After agreement about the desired changes has been achieved, the delivery period re-commences to run.

3.3 Acts of God, labor disputes, riots, governmental acts and similar circumstances beyond the control of Heraeus Kulzer (force majeure) release Heraeus Kulzer from its obligation to perform a contract for so long as and to the extent that the effects of such force majeure circumstances persist. This applies also if such force majeure circumstances occur to sub-suppliers of Heraeus Kulzer or if they occur at a point in time at which Heraeus Kulzer has already been in default. Heraeus Kulzer will inform the customer of the commencement and of the end of such hindrances to the performance of the Services without delay.

3.4 The products of Heraeus Kulzer are generally unpacked. If the customer desires packaging, the costs will be borne by the customer.

3.5 Heraeus Kulzer delivers ‘ex factory’/‘ex works’ (Incoterms 2010). If Heraeus Kulzer solely organizes the transport, the costs of dispatch and the costs of transport insurance will be borne by the customer.

3.6 The price risk (i.e. the risk of accidental loss or accidental deterioration) shall pass to the customer at that point in time at which the goods are placed at the customer’s disposal at the factory/works from which delivery is effected, even if Heraeus Kulzer has accepted to perform additional services such as loading or transportation of the goods.

If the performance of a Service is delayed for reasons within the customer’s responsibility, the risk shall pass to the customer upon receipt of a notification that the Service is ready to be performed. In such case, Heraeus Kulzer will be permitted to invoice the goods to the customer as having been delivered, and to store the goods at the customer’s cost and risk. Upon request of the customer, Heraeus Kulzer will insure these goods against theft and damage from breakage, transport, fire and water at the customer’s cost.

## 4 Prices, Payment, Default

4.1 The prices quoted by Heraeus Kulzer are exclusive of the statutory value-added tax, outer packaging, shipping charges and insurance costs (‘ex works’, Incoterms 2010).

4.2 Invoices are due for payment immediately upon receipt and without any deductions. Cheques will be accepted on account of performance only. The customer agrees to the electronic transmission of the invoice.

4.3 Heraeus Kulzer charges interest for default in payment at the rate of eight (8) percentage points above the applicable base rate p.a. (Section 247 of the German Civil Code (BGB)). The right to furnish proof of a higher or further damage caused by default remains reserved.

4.4 Heraeus Kulzer shall not be obligated to perform the contract for so long as the customer fails to perform his own obligations according to contract, including his obligations from other contracts with Heraeus Kulzer and, in particular, if the customer defaults in the timely payment of invoices due.

4.5 The customer may offset counterclaims or withhold payment based on such counterclaims only if such counterclaims are uncontested in writing or non-appealable.

4.6 If the customer is in default of payment or if there are circumstances which, when applying customary banking standards, justify doubts about the customer’s ability to pay, Heraeus Kulzer will be entitled to perform

outstanding Services only against payment in advance or subject to the provision of a security. In such case, Heraeus Kulzer will be permitted to declare all of its claims against the customer immediately due for payment, irrespective of the term of any bills of exchange, and demand securities.

4.7 Subject to evidence of a higher damage, Heraeus Kulzer will charge 2.50 € for the second and each further reasonable reminder.

4.8 If, despite a reasonable time limit, a Service which is ready for acceptance is not fully accepted or is accepted too late through no fault of Heraeus Kulzer, Heraeus Kulzer will place the goods in storage at the customer’s cost and risk. For such storage Heraeus Kulzer will charge 0.5 % of the invoice amount for each month of the delay in acceptance.

## 5 Warranty, Duties of the Customer regarding Claims for Defects by his own Customers; Liability and Damages

5.1 Slight deviations from the agreed or standard quality do not constitute a defect in a product or Service. General information on the use of a product or examples for the application of a product given by Heraeus Kulzer in product brochures or other advertising media do not release the customer from a careful inspection of the delivered product for its fitness for the customer’s particular purpose of use. The customer’s special requests regarding the particular use of a product shall only be authoritative if Heraeus Kulzer has confirmed to the customer in writing at the time of conclusion of the contract that the product delivered is fit for the customer’s intended purpose of use.

5.2 The customer shall notify Heraeus Kulzer without delay of all claims for defects which are asserted by his own customers and which relate to Services of Heraeus Kulzer, otherwise the customer’s claims for defects against Heraeus Kulzer will be excluded. In addition, the customer shall preserve evidence in the requisite form and provide such evidence to Heraeus Kulzer.

Heraeus Kulzer may reclaim from the customer a product complained of as defective (including any existing supporting documents, samples and packing slips) for investigation of the defect. The customer’s failure to comply with this reasonable request will result in the exclusion of the customer’s claims for defects or incompleteness of Service. The same applies to any claims for defects which are asserted against the customer by his own customers and which relate to Services of Heraeus Kulzer.

5.3 For defects in a product, Heraeus Kulzer’s obligation to perform the contract shall, at its choice, consist of subsequent performance by remedy of the defect or delivery of a faultfree product. The customer will be entitled to cancel the contract or to reduce the purchase price in accordance with the statutory provisions only if the subsequent performance by Heraeus Kulzer has failed twice or is unreasonable and the defect complained of is not merely a minor defect. Claims for damages are governed by the provisions in clause 5.6 hereof.

5.4 The compensation of any loss or damage is excluded if and to the extent that such loss or damage is caused by the improper use, modification, assembly, installation and/or operation of the products of Heraeus Kulzer, or by defective instructions of the customer, and not by a fault on the part of Heraeus Kulzer. The liability of Heraeus Kulzer for defects in materials which are supplied by the customer and processed by Heraeus Kulzer is excluded if such defects are caused by the characteristics and properties of the materials so supplied. If defects in the materials supplied by the customer should render these

materials unusable during their processing by Heraeus Kulzer, the customer will nevertheless be obligated to reimburse Heraeus Kulzer for its processing expenditure.

**5.5** Claims for material defects and defects of title become barred by the statute of limitations after twelve (12) months from the passing of the risk.

**5.6** Heraeus Kulzer will assume unlimited liability in cases where Heraeus Kulzer has expressly assumed a guaranty/ warranty or a procurement risk, in the case of a culpable injury to the life, body or health of any person, for claims under the German Product Liability Act, and for other willful or grossly negligent breaches of duty by Heraeus Kulzer. In the case of slight or ordinary negligence and damage to property or pecuniary losses caused thereby, Heraeus Kulzer will assume liability only for its breach of essential contractual duties the performance of which is indispensable for the proper fulfillment of the contract and the performance of which the customer must be able to specifically rely upon; however, such liability of Heraeus Kulzer is limited to the damage which is typical of the contract and which was foreseeable at the time of contracting. The liability of Heraeus Kulzer for delay is limited to 0.5 % of the value of the Service in delay per each completed week of such delay, up to a maximum rate of 5 % of the said value. Any further liability for damages is excluded, irrespective of the legal nature of the claim asserted.

**5.7** The foregoing limitations of liability apply on the merits and in terms of amount also to Heraeus Kulzer's legal representatives, agents and employees and/or other persons in Heraeus Kulzer's services.

## 6 Reservation of Title

**6.1** Heraeus Kulzer retains title to all products delivered until the customer has fully satisfied all of his payment obligations from the business relationship with Heraeus Kulzer. This applies also if payments are made in satisfaction of specially designated claims, including claims from cheques and bills of exchange, from open bills or current account.

**6.2** The customer shall have the right to resell, process, mix, blend or combine the goods subject to reservation of title with other items during his ordinary course of business until revocation by Heraeus Kulzer, which revocation may be declared at any time and without giving reasons. A resale of the goods subject to reservation of title within the meaning herein defined extends also to the installation of such goods in ground and buildings, or their installation in facilities connected to buildings, or their use for the performance of other contracts.

**6.3** The processing or transformation of the goods subject to reservation of title is made for Heraeus Kulzer as the manufacturer within the meaning defined in Section 950 of the German Civil Code (BGB) without resulting in any obligation on the part of Heraeus Kulzer. The processed or transformed goods shall constitute goods subject to the reservation of title within the meaning of these General Terms of Sale and Delivery. If the goods subject to reservation of title are processed or inseparably blended/combined with other items which are not owned by Heraeus Kulzer, Heraeus Kulzer acquires a co-ownership of the resulting new item in the ratio of the invoice value of the goods subject to reservation of title and the replacement value of the other items used at the time of such processing or blending/ combining. If the goods subject to reservation of title are combined or inseparably blended with other items not owned by Heraeus Kulzer into a uniform item which is to be regarded as main item, the customer hereby assigns to Heraeus Kulzer a share of co-ownership which is proportionate to the customer's

ownership of the main item. Heraeus Kulzer hereby accepts this assignment. The customer will hold the property so created on behalf of Heraeus Kulzer free of charge.

**6.4** The customer shall insure the goods subject to reservation of title at his own cost against all standard risks, in particular against fire, burglary and water hazards, handle these goods with care and store them properly.

**6.5** In the event of a resale of the goods subject to reservation of title by the customer, the customer hereby immediately assigns to Heraeus Kulzer the purchase price claims against his own customers arising from such resale. If the customer resells the goods subject to reservation of title together with other items not delivered by Heraeus Kulzer, the foregoing assignment applies only in the amount of the value of the goods subject to reservation of title which is specified in the invoice of Heraeus Kulzer. In the case of a resale of items in which Heraeus Kulzer has a co-ownership pursuant to clause 6.3, such assignment applies in the amount of Heraeus Kulzer's co-ownership. The assigned claims serve as security in the same scope as the goods subject to reservation of title. If an assigned claim is included in a current account, the customer hereby immediately assigns to Heraeus Kulzer a balance which corresponds to such claim from current account. Heraeus Kulzer hereby accepts the said assignment of claims.

**6.6** The customer shall have the right to collect, within his ordinary course of business, the claims assigned to him by Heraeus Kulzer until revocation by Heraeus Kulzer, which revocation may be declared at any time and for no specific reason; this collection right becomes automatically extinct without revocation as soon as the customer defaults in any of his payments to Heraeus Kulzer. If payment is made by direct debiting, the customer will ensure by prior agreement with his bank that the amounts received are exempt from the bank's lien and that he is at all times able to meet his obligation to transfer his proceeds to Heraeus Kulzer. At the request of Heraeus Kulzer, the customer will inform his own customers of the assignment of future claims to Heraeus Kulzer and provide Heraeus Kulzer with any and all information and documentation which is required for the assertion of these claims.

**6.7** If the aggregate value of the securities existing for Heraeus Kulzer exceeds the claims of Heraeus Kulzer by more than 10 %, Heraeus Kulzer will release additional securities of its own choice at the request of the customer.

**6.8** Above and beyond the foregoing, the customer is not entitled to make any dispositions in respect of the goods subject to reservation of title (liens, pledging of security interests or other assignments in respect of the claims specified in clause 6.5. In the event of an attachment or seizure of the goods subject to reservation of title, the customer will point out that these goods are the property of Heraeus Kulzer and will notify Heraeus Kulzer of such attachment or seizure without delay, also in writing.

**6.9** If the customer is in default of payment and a grace period fixed by Heraeus Kulzer has elapsed without payment being effected, Heraeus Kulzer is entitled to take back the goods subject to reservation of title also if Heraeus Kulzer has not rescinded the contract.

## 7 Weight Accounts for Precious Metals

**7.1** In the commercial intercourse involving precious metals, Heraeus Kulzer maintains weight accounts. The precious metal stocks of the individual account holders are not stored separately. All account holders together form a community of proprietors which is managed by Heraeus Kulzer.

**7.2** Each account holder acquires by accession a co-ownership of the total existing stock of precious metals, which is expressed in and limited to the troy weight of each precious metal credited to the account holder's account. In case of a purchase or sale of precious metals, the passing of title is effected by a credit or debit entry in the respective weight account.

## 8 Choice of Law, Place of Performance, Place of Jurisdiction

**8.1** These General Terms of Delivery and any agreement between Heraeus Kulzer and the customer shall be governed by and construed in accordance with the law of Germany, without giving effect to its conflict of law provisions and without giving effect to the UN Convention on Contracts for the International Sale of Goods of 11 April 1980 (CISG).

**8.2** The place of performance for the Services of Heraeus Kulzer is the factory/works from which delivery is effected; the place of performance for the customer's payments is Heraeus' Kulzer's registered place of business.

**8.3** The place of jurisdiction, also for actions on cheques and bills of exchange, is the registered place of business of Heraeus Kulzer. However, Heraeus Kulzer shall be entitled to recourse in any court having jurisdiction as to the respective legal action under the laws of Germany or under the laws of the country in which the customer has his registered place of business.



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In accordance with European Directive 93/42/EEC,  
our products bear the CE marking on the basis of their  
classification.