

NPM-PARTIAL DENTURE ALLOYS



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	510 - 600MPa
Ultimate tensile strength	770 - 780MPa
Elongation	>3%
Elastic modulus	200 - 230GPa
Vickers hardness	355 HV 10
Density	8.4 g/cm³
Melting range	1170 - 1390°C
Preheating temperature	850 - 950°C
Casting temperature	1490 - 1540°C
Laser weldable	Yes
Type (DIN EN ISO 22674)	5



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	500MPa
Ultimate tensile strength	760MPa
Elongation	6%
Elastic modulus	250GPa
Vickers hardness	380 HV 10
Density	8.1g/cm³
Melting range	1200 - 1385°C
Preheating temperature	850 - 950°C
Casting temperature	1485 - 1540°C
CTE (20-600°C)	14.9 x 10⁻⁶ K⁻¹
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

■ MODELSTAR S

CoCr partial denture alloy for the whole range of removable partial dentures from combined fixed-removables restorations to clasp-retained dentures.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 pursuant to DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and extremely corrosion resistant
- › High wearing comfort due to low thermal conductivity
- › Composition:
Co: 62,7% Cr: 29% Mo: 6% C,Fe,Si,Mn: <1%

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Excellent for casting of 3D printed plastic parts
- › Especially patient-friendly due to a low thermal conductivity
- › System-free working due to very good alloy properties
- › Universally applicable for clasp-retained prostheses and combined techniques
- › Pleasant polishing properties and easy finishing
- › Optimal conditions for laser welding
- › Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	132100
250g	132250

■ STARBOND CO

CoCr partial denture alloy (bondable) for sophisticated combined restorations and gracile clasp design.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 pursuant to DIN EN ISO 22674
- › Excellent degree of purity
- › Biocompatible and extremely corrosion resistant
- › High wearing comfort due to low thermal conductivity
- › Spring hard
- › Composition:
Co: 62% Cr: 30% Mo: 5,5% Si: 1% C,Fe Mn:<1%

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Universally applicable for clasp-retained prostheses, combined techniques and ceramic restorations
- › Excellent for casting of 3D printed plastic parts
- › System-free working due to very good alloy properties
- › Pleasant polishing properties and easy finishing
- › Optimal conditions for laser welding
- › Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	132000

NPM-PARTIAL DENTURE ALLOYS



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	662MPa
Ultimate tensile strength	877MPa
Elongation	>4%
Elastic modulus	200 - 210GPa
Vickers hardness	420 HV 10
Density	8,7g/cm³
Melting range	1320 - 1400°
Preheating temperature	850 - 950°C
Casting temperature	1500 - 1550°C
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

■ MOGUCAST EH

CoCr partial denture alloy for sophisticated combined restorations.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 pursuant to DIN EN ISO 22674
- › Excellent degree of purity
- › Biocompatible and extremely corrosion resistant
- › High wearing comfort due to low thermal conductivity
- › Spring hard
- › Composition:
Co: 62% Cr: 25% W: 9% Nb:2% C,V,Mo,Mn,Si:<1%

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Particularly suitable for extremely graceful removables
- › Ideal alloy for restorations which are exposed to very high loads
- › Excellent for casting of 3D printed plastic parts
- › Universally applicable for clasp-retained prostheses and combined techniques
- › Pleasant polishing properties and easy finishing
- › Optimal conditions for laser welding
- › System-free working due to very good alloy properties

QUANTITY	REF
1000g	132200

