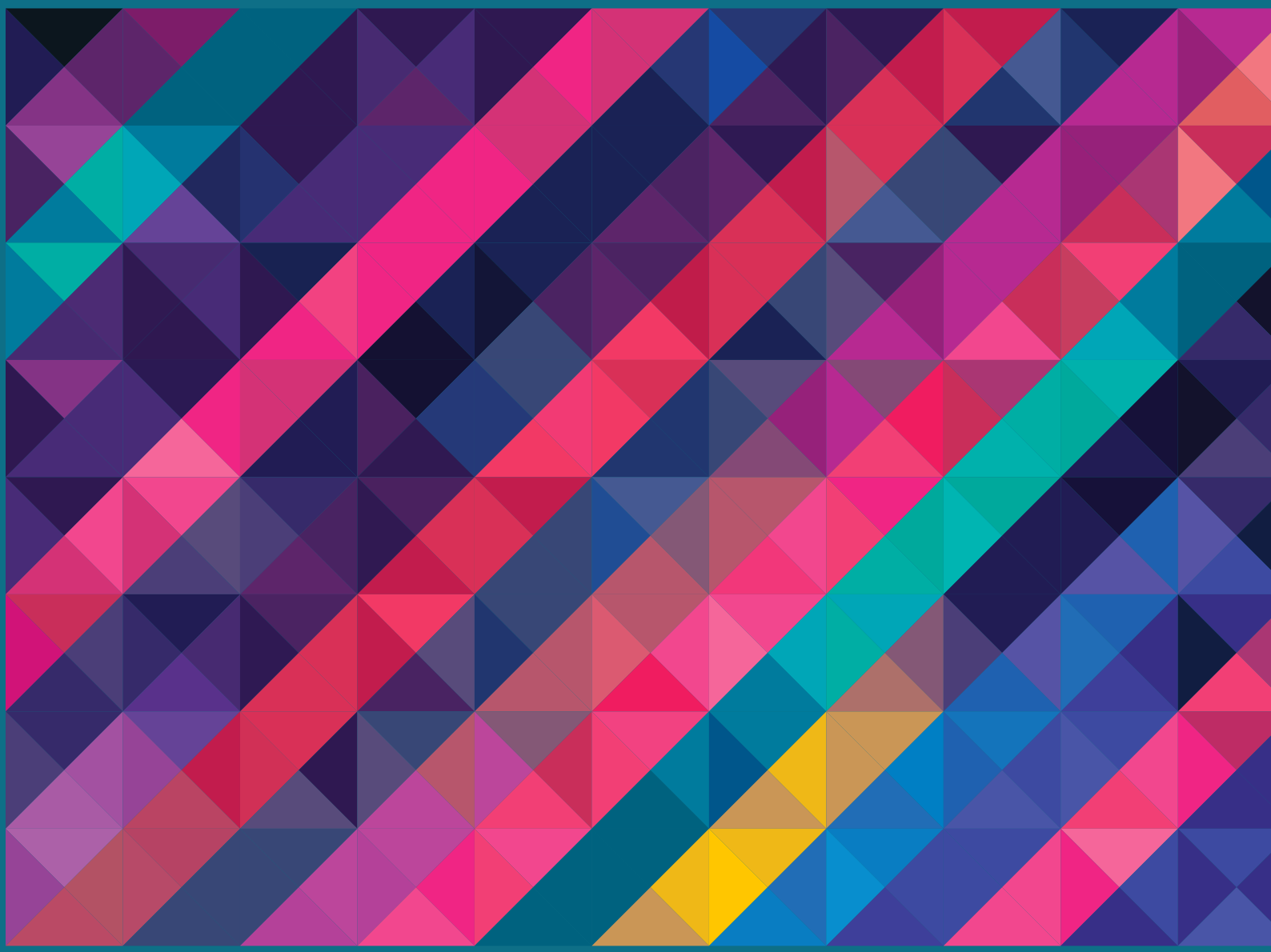


MEDSTER

Sterilization Technologies

MEDSTER

Sterilization Technologies

MEDSTER has been established in 2012 as an innovative and leading company in the fi eld of Medical Sector. It manufactures medical devices in the sterilization fi eld; sterilization packaging, sterilization control products, and sterilization devices, which aims to serve in the health sector by making continuous improvement, touches lives with its design and production. It operates in all provinces of our country with its team with a unique experience in the fi eld of sterilization, and exports to 75 countries.

As a Turkish brand, MEDSTER presents its products at '' Medica / Duesseldorf - Germany'', ''Arab Health / Dubai - UAE'', ''FIME Show / Miami / USA'', "Expomed / Istanbul - Turkey'' fairs and also ''Turkey DAS Congress'' every year to introduce its products to the whole world.

It will continue to be your solution partner in the medical sector with its production facilities in accordance with MDR standards, which it has accomplished with serious eff ort and investments in Ankara, and its investments for its 3rd factory.

MEDSTER,

Contributes to the country's economy by using its own resources as a company policy with its high-tech products it produces in the fi eld of sterilization. The goal of MEDSTER, which has managed to be among the top 100 fastest growing companies in 2020 and 2021 in the study conducted by the Union of Chambers and Commodity Exchanges of Turkey (TOBB) and is among the top 100 companies in its own sector in the study carried out by the Exporters Association.

# Sterilization Reels Group

## FLAT STERILIZATION REELS

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• It offers suitable packaging solutions for your medical devices with its wide range of sizes.

• It has superior barrier property.

• Our product is made of PET/PP copolymer fi lm and 60 GSM or 70 GSM medical kraft paper.

• Steam, Ethylene Oxide (EO) and Formaldehyde (FO) indicator printing options are available on our product.

• Process indicators do not contain lead, heavy metals and other chemicals harmful to health.

• Our products meet the performance requirements specifi ed in ISO 11607, ISO 11140-1 and EN 868-5 standards.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our products is 5 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| SR05200 | Flat Sterilization Reel | 5 cm x 200 m | 16 |
| SR75200 | Flat Sterilization Reel | 7,5 cm x 200 m | 8 |
| SR10200 | Flat Sterilization Reel | 10 cm x 200 m | 8 |
| SR12200 | Flat Sterilization Reel | 12 cm x 200 m | 4 |
| SR15200 | Flat Sterilization Reel | 15 cm x 200 m | 4 |
| SR20200 | Flat Sterilization Reel | 20 cm x 200 m | 4 |
| SR25200 | Flat Sterilization Reel | 25 cm x 200 m | 2 |
| SR30200 | Flat Sterilization Reel | 30 cm x 200 m | 2 |
| SR35200 | Flat Sterilization Reel | 35 cm x 200 m | 2 |
| SR38200 | Flat Sterilization Reel | 38 cm x 200 m | 2 |
| SR40200 | Flat Sterilization Reel | 40 cm x 200 m | 2 |
| SR42200 | Flat Sterilization Reel | 42 cm x 200 m | 2 |
| SR45200 | Flat Sterilization Reel | 45 cm x 200 m | 2 |
| SR50200 | Flat Sterilization Reel | 50 cm x 200 m | 2 |

## GUSSETED STERILIZATION REELS

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• It off ers suitable packaging solutions for your medical devices with its wide range of sizes and with its feature of being gusseted.

• It has superior microbial barrier property.

• Our product is made of PET/PP copolymer fi lm and 60 GSM or 70 GSM medical kraft paper.

• Steam, Ethylene Oxide (EO) and Formaldehyde (FO) indicator printing options are available on our product.

• Process indicators do not contain lead, heavy metals and other chemicals harmful to health.

• Our products meet the performance requirements specifi ed in ISO 11607, ISO 11140-1 and EN 868-5 standards.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our products is 5 years

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| KR75100 | Gusseted Sterilization Reel | 7,5 cm x 100 m | 8 |
| KR10100 | Gusseted Sterilization Reel | 10 cm x 100 m | 8 |
| KR15100 | Gusseted Sterilization Reel | 15 cm x 100 m | 4 |
| KR20100 | Gusseted Sterilization Reel | 20 cm x 100 m | 4 |
| KR25100 | Gusseted Sterilization Reel | 25 cm x 100 m | 2 |
| KR30100 | Gusseted Sterilization Reel | 30 cm x 100 m | 2 |
| KR35100 | Gusseted Sterilization Reel | 35 cm x 100 m | 2 |
| KR40100 | Gusseted Sterilization Reel | 40 cm x 100 m | 2 |

## Tyvek® STERILIZATION REELS

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Tyvek® Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• Sterilization Reels are used for low temperature Hydrogen Peroxide (H2O2) sterilization methods.

• It is preferred in low temperature sterilization due to its porous structure.

• The reels meet the high quality, hygiene and safety level requirements of the medical industry.

• Sterilization Reels are made of PET/PE transparent copolymer fi lm and uncoated Tyvek® web paper.

• It has superior microbial barrier property.

• It off ers suitable packaging solutions for your medical devices with its wide range of sizes.

• Process indicators do not contain lead, heavy metals and other chemicals harmful to health.

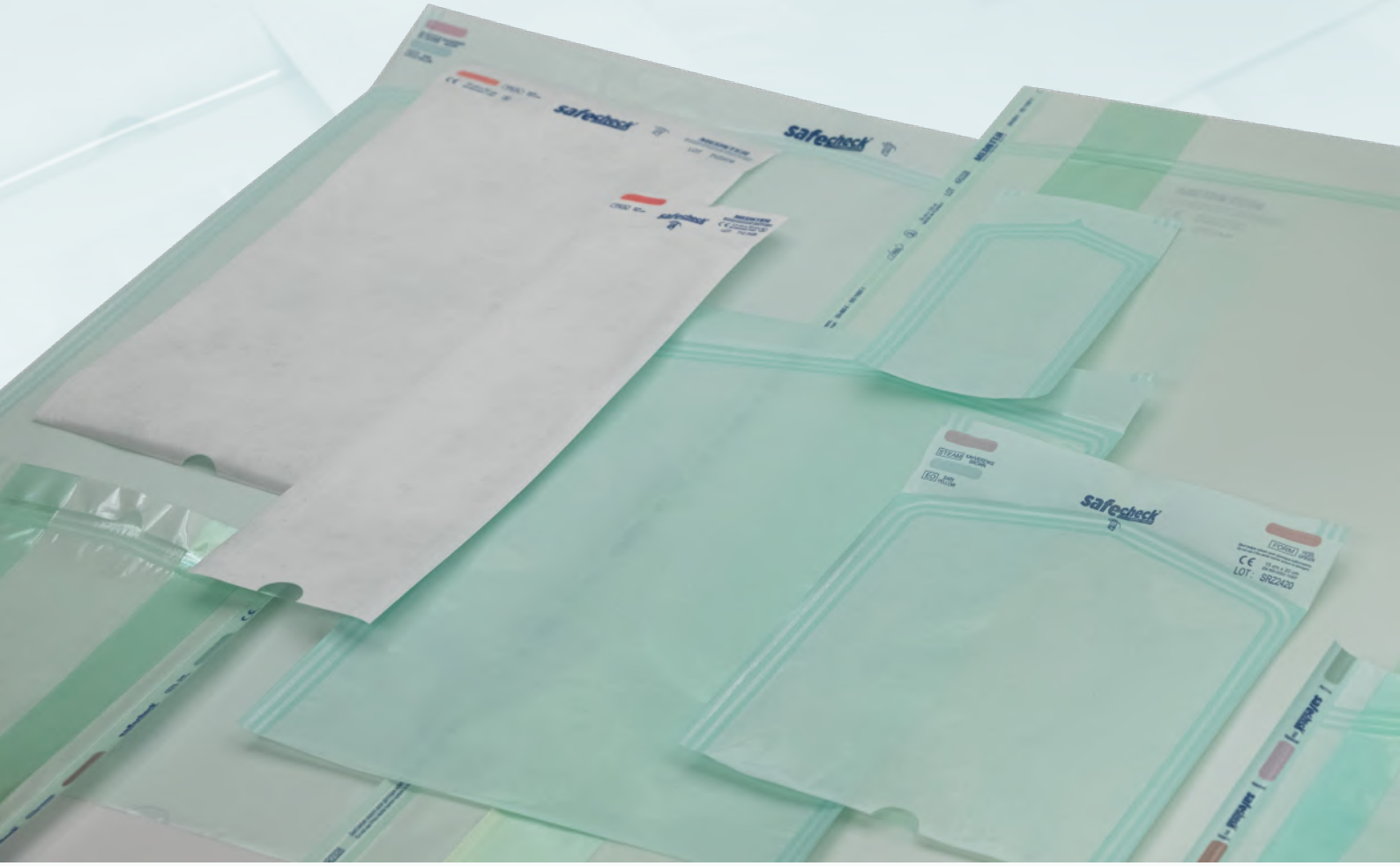
• Sterilization Reels meet the performance requirements specifi ed in ISO 11607, ISO 11140-1 and EN 868-9 standards.

• There is LOT, Production Date and Expiry Date information on the product label.

• The service life of the product is 5 years.

• Tyvek® is registered brand of Dupont™

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| TY7570 | Tyvek® Sterilization Reel | 7,5 cm x 70 m | 8 |
| TY1070 | Tyvek® Sterilization Reel | 10 cm x 70 m | 8 |
| TY1570 | Tyvek® Sterilization Reel | 15 cm x 70 m | 4 |
| TY2070 | Tyvek® Sterilization Reel | 20 cm x 70 m | 4 |
| TY2570 | Tyvek® Sterilization Reel | 25 cm x 70 m | 2 |
| TY3070 | Tyvek® Sterilization Reel | 30 cm x 70 m | 2 |
| TY3570 | Tyvek® Sterilization Reel | 35 cm x 70 m | 2 |
| TY4070 | Tyvek® Sterilization Reel | 40 cm x 70 m | 2 |
| TY5070 | Tyvek® Sterilization Reel | 50 cm x 70 m | 2 |




# Sterilization Pouch Group

## FLAT STERILIZATION POUCH

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• It off ers suitable packaging solutions for your medical devices with its wide range of sizes.

• It is tear-proof, aseptic and easily peelable, leaving no particles.

• It has superior barrier property.

• Our product is made of PET/PP copolymer fi lm and 60 GSM or 70 GSM medical kraft paper.

• Steam, Ethylene Oxide (EO) and Formaldehyde (FO) indicator printing options are available on our product.

• Process indicators do not contain lead, heavy metals and other chemicals harmful to health.

• Our products meet the performance requirements specifi ed in ISO 11607, ISO 11140-1 and EN 868-5 standards.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our products is 5 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| SRZ0510 | Flat Sterilization Pouch | 5 cm x 10 cm | 1000 pcs |
| SRZ7515 | Flat Sterilization Pouch | 7,5 cm x 15 cm | 1000 pcs |
| SRZ1025 | Flat Sterilization Pouch | 10 cm x 25 cm | 1000 pcs |
| SRZ1030 | Flat Sterilization Pouch | 10 cm x 30 cm | 1000 pcs |
| SRZ1515 | Flat Sterilization Pouch | 15 cm x 15 cm | 1000 pcs |
| SRZ2035 | Flat Sterilization Pouch | 20 cm x 35 cm | 1000 pcs |
| SRZ2535 | Flat Sterilization Pouch | 25 cm x 35 cm | 1000 pcs |
| SRZ2540 | Flat Sterilization Pouch | 25 cm x 40 cm | 1000 pcs |
| SRZ3040 | Flat Sterilization Pouch | 30 cm x 40 cm | 1000 pcs |
| SRZ3550 | Flat Sterilization Pouch | 35 cm x 50 cm | 1000 pcs |
| SRZ3250 | Flat Sterilization Pouch | 32 cm x 50 cm | 1000 pcs |
| SRZ3555 | Flat Sterilization Pouch | 35 cm x 55 cm | 1000 pcs |
| SRZ3560 | Flat Sterilization Pouch | 35 cm x 60 cm | 1000 pcs |
| SRZ4050 | Flat Sterilization Pouch | 40 cm x 50 cm | 1000 pcs |
| SRZ4560 | Flat Sterilization Pouch | 45 cm x 60 cm | 1000 pcs |

## SELF-SEAL STERILIZATION POUCH

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• It off ers suitable packaging solutions for your medical devices with its wide range of sizes.

• It is tear-proof, aseptic and easily peelable, leaving no particles.

• It has superior barrier property.

• Our product is made of PET/PP copolymer fi lm and 60 GSM or 70 GSM medical kraft paper.

• Steam, Ethylene Oxide (EO) and Formaldehyde (FO) indicator printing options are available on our product.

• Process indicators do not contain lead, heavy metals and other chemicals harmful to health.

• Our products meet the performance requirements specifi ed in ISO 11607, ISO 11140-1 and EN 868-5 standards.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our products is 5 years.

• It is self-sealed for easy closure.

• Self-Seal Pouches does not need a sealing device.

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| SSP0510 | Self-Seal Sterilization Pouch 200pcs/pack | 5 cm x 10 cm | 1000pcs |
| SSP7515 | Self-Seal Sterilization Pouch 200pcs/pack | 7,5 cm x 15 cm | 1000pcs |
| SSP1025 | Self-Seal Sterilization Pouch 200pcs/pack | 10 cm x 25 cm | 1000pcs |
| SSP1030 | Self-Seal Sterilization Pouch 200pcs/pack | 10 cm x 30 cm | 1000pcs |
| SSP1515 | Self-Seal Sterilization Pouch 200pcs/pack | 15 cm x 15 cm | 1000pcs |
| SSP2035 | Self-Seal Sterilization Pouch 200pcs/pack | 20 cm x 35 cm | 1000pcs |
| SSP2535 | Self-Seal Sterilization Pouch 200pcs/pack | 25 cm x 35 cm | 1000pcs |
| SSP2540 | Self-Seal Sterilization Pouch 200pcs/pack | 25 cm x 40 cm | 1000pcs |
| SSP3040 | Self-Seal Sterilization Pouch 200pcs/pack | 30 cm x 40 cm | 1000pcs |
| SSP3550 | Self-Seal Sterilization Pouch 200pcs/pack | 35 cm x 50 cm | 1000pcs |
| SSP3250 | Self-Seal Sterilization Pouch 200pcs/pack | 32 cm x 50 cm | 1000pcs |
| SSP3555 | Self-Seal Sterilization Pouch 200pcs/pack | 35 cm x 55 cm | 1000pcs |
| SSP3560 | Self-Seal Sterilization Pouch 200pcs/pack | 35 cm x 60 cm | 1000pcs |
| SSP4050 | Self-Seal Sterilization Pouch 200pcs/pack | 40 cm x 50 cm | 1000pcs |
| SSP4560 | Self-Seal Sterilization Pouch 200pcs/pack | 45 cm x 60 cm | 1000pcs |

## GUSSETED STERILIZATION POUCH

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• It off ers suitable packaging solutions for your medical devices with its wide range of sizes and with its feature of being gusseted.

• It has superior microbial barrier property.

• Our product is made of PET/PP copolymer fi lm and 60 GSM or 70 GSM medical kraft paper.

• Steam, Ethylene Oxide (EO) and Formaldehyde (FO) indicator printing options are available on our product.

• Process indicators do not contain lead, heavy metals and other chemicals harmful to health.

• Our products meet the performance requirements specifi ed in ISO 11607, ISO 11140-1 and EN 868-5 standards.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our products is 5 years

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| KRZ0510 | Gusseted Sterilization Pouch | 5 cm x 10 cm | 1000 pcs |
| KRZ7515 | Gusseted Sterilization Pouch | 7,5 cm x 15 cm | 1000 pcs |
| KRZ1025 | Gusseted Sterilization Pouch | 10 cm x 25 cm | 1000 pcs |
| KRZ1030 | Gusseted Sterilization Pouch | 10 cm x 30 cm | 1000 pcs |
| KRZ1515 | Gusseted Sterilization Pouch | 15 cm x 15 cm | 1000 pcs |
| KRZ2035 | Gusseted Sterilization Pouch | 20 cm x 35 cm | 1000 pcs |
| KRZ2535 | Gusseted Sterilization Pouch | 25 cm x 35 cm | 500 pcs |
| KRZ2540 | Gusseted Sterilization Pouch | 25 cm x 40 cm | 500 pcs |
| KRZ3040 | Gusseted Sterilization Pouch | 30 cm x 40 cm | 500 pcs |
| KRZ3550 | Gusseted Sterilization Pouch | 35 cm x 50 cm | 500 pcs |
| KRZ3250 | Gusseted Sterilization Pouch | 32 cm x 50 cm | 500 pcs |
| KRZ3555 | Gusseted Sterilization Pouch | 35 cm x 55 cm | 500 pcs |
| KRZ3560 | Gusseted Sterilization Pouch | 35 cm x 60 cm | 500 pcs |
| KRZ4050 | Gusseted Sterilization Pouch | 40 cm x 50 cm | 500 pcs |
| KRZ4560 | Gusseted Sterilization Pouch | 45 cm x 60 cm | 500 pcs |

## Tyvek® STERILIZATION POUCH

• Designed as a packaging solution for sterilization applications, Medster SafeCheck Sterilization Reels are a microbial barrier system that ensures the sterility of the medical devices that are packed, to be maintained safely throughout the period from the sterilization to the time of use.

• It is used for low temperature hydrogen peroxide (H2O2) sterilization.

• It is preferred in low temperature sterilization due to its porous structure.

• Made of PET / PE laminated fi lm and uncoated Dupont™ Tyvek® web.

• It has superior microbial barrier property.

• With its wide range of sizes, it facilitates the selection of the appropriate packaging for your medical supplies.

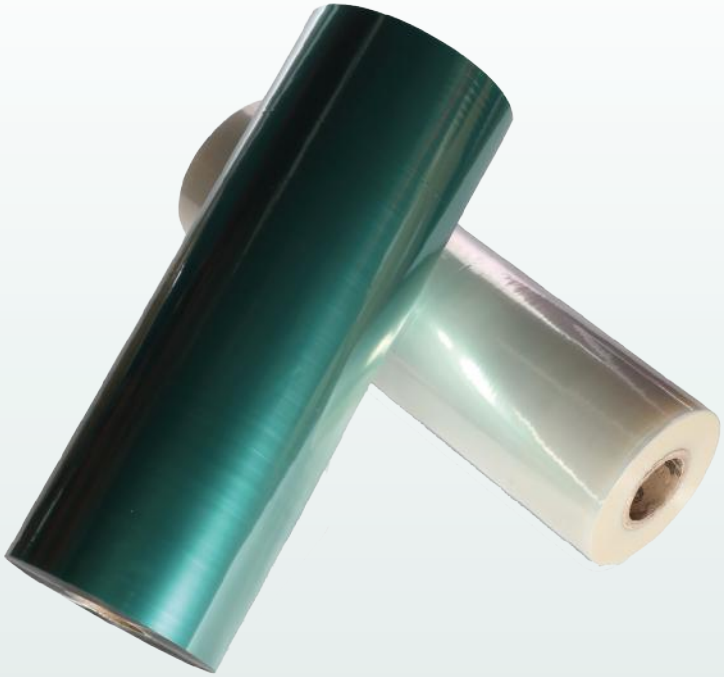
• Hydrogen Peroxide process indicator is printed, the indicator has a water-based and non-toxic structure.

• It has excellent edge welding resistance and triple welding feature.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our products is 5 years

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| TYZ0510 | Tyvek® Sterilization Pouch | 5 cm x 10 cm | 1000 pcs |
| TYZ7515 | Tyvek® Sterilization Pouch | 7,5 cm x 15 cm | 1000 pcs |
| TYZ1025 | Tyvek® Sterilization Pouch | 10 cm x 25 cm | 1000 pcs |
| TYZ1030 | Tyvek® Sterilization Pouch | 10 cm x 30 cm | 1000 pcs |
| TYZ1515 | Tyvek® Sterilization Pouch | 15 cm x 15 cm | 1000 pcs |
| TYZ2035 | Tyvek® Sterilization Pouch | 20 cm x 35 cm | 1000 pcs |
| TYZ2535 | Tyvek® Sterilization Pouch | 25 cm x 35 cm | 1000 pcs |
| TYZ2540 | Tyvek® Sterilization Pouch | 25 cm x 40 cm | 1000 pcs |
| TYZ3040 | Tyvek® Sterilization Pouch | 30 cm x 40 cm | 1000 pcs |
| TYZ3550 | Tyvek® Sterilization Pouch | 35 cm x 50 cm | 1000 pcs |
| TYZ3250 | Tyvek® Sterilization Pouch | 32 cm x 50 cm | 1000 pcs |
| TYZ3555 | Tyvek® Sterilization Pouch | 35 cm x 55 cm | 1000 pcs |
| TYZ3560 | Tyvek® Sterilization Pouch | 35 cm x 60 cm | 1000 pcs |
| TYZ4050 | Tyvek® Sterilization Pouch | 40 cm x 50 cm | 1000 pcs |
| TYZ4560 | Tyvek® Sterilization Pouch | 45 cm x 60 cm | 1000 pcs |



# MEDICAL LAMINATED FILM

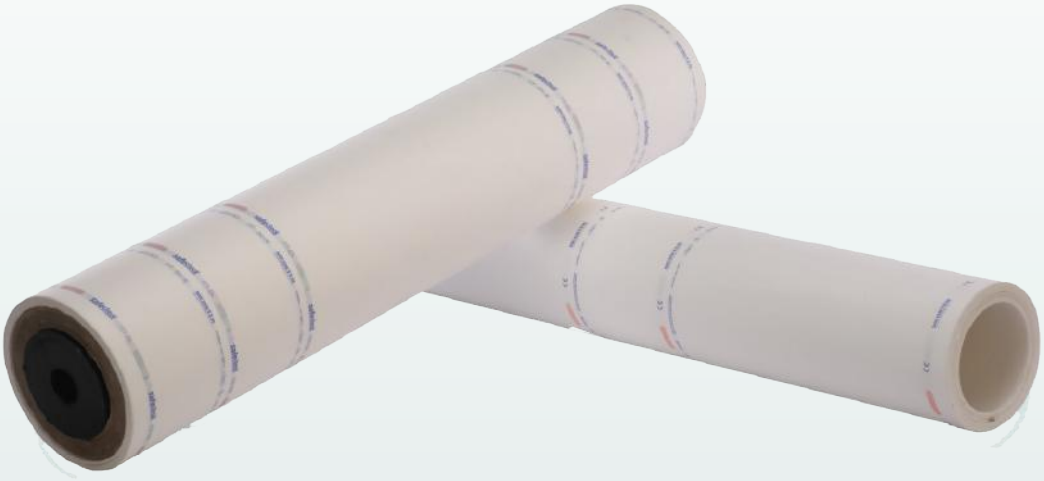
## PET / PP FILM

- It suitable for Steam, Ethylene Oxide (EO) and Formaldehyde (FO) Sterilization method.
- It has excellent tensile and rupture strength.
- It has a clean and aseptic peeling feature on the sterilization reel made of medical paper.
- Available in blue, green and white colors.

## PET / PE FILM

- It is suitable for Hydrogen Peroxide (H2O2) sterilization method.
- It has excellent, easy peeling properties.
- It is perfectly compatible with Dupont™ Tyvek® medical paper.
- It has a clean and aseptic peeling feature on the sterilization reel.
- It is preferred in the packaging of medical devices that need to be protected.

| PRODUCT CODE | PRODUCT DESCRIPTION |
|---|---|
| PEF001 | PET / PE Medical Laminated Film- Transparent |
| PPF001 | PET / PP Medical Laminated Film- Green |
| PPF002 | PET / PP Medical Laminated Film- Blue |



## MEDICAL KRAFT PAPER

- It suitable for Steam, Ethylene Oxide (EO) and Formaldehyde (FO) Sterilization method.
- When welded with PET / PP laminated film, it has aseptic and particle-free peeling feature.
- High microbial barrier property.
- Can be supplied as printed and unprinted.
- Steam (Steam), Ethylene Oxide (EO) and Formaldehyde (FO) Indicator can be printed.
- Can be supplied as 60 GSM or 70 GSM
- Manufactured in accordance with EN 868-3 and EN 868-6 standards.
- Can be supplied in the desired coil width and diameter

## DUPONT™, Tyvek® WEB

- Manufactured in accordance with Hydrogen Peroxide (H2O2) and Ethylene Oxide (EO) low temperature sterilization method.
- When welded with PET / PE laminated film, it has aseptic and particle-free peeling feature.
- It has a high microbial barrier property.
- It is produced as printed and unprinted.
- Hydrogen Peroxide (H2O2) Indicator can be printed.
- Can be supplied as 60-62 GSM or 70-73 GSM
- It is produced in accordance with EN 868-9 standard.
- Can be supplied in the desired coil width and diameter

| PRODUCT CODE | PRODUCT DESCRIPTION |
|---|---|
| TYK001 | Dupont™, Tyvek® Medical Web |
| 60KK001 | 60 GSM Medical Kraft Paper |
| 70KK001 | 70 GSM Medical Kraft Paper |

# MEDSTER

# Indicator Label Group

• SafeCheck Indicator Labels meet the performance requirements specified in ISO 11140-1 and EN 867-5 standards.

• It is applied outside of the sterilization package and is used to distinguish between packages that have entered the sterilization process and those that have not.

• The product has different types designed to be used in Steam, Ethylene Oxide (EO) and Low-temperature Hydrogen Peroxide (H2O2) sterilization processes.

• Indicates whether the materials have been subjected to the sterilization process.

• The indicator color conversion is clear, providing visual information about sterilization exposure.

• Having 3 lines enables Sterilization Information, Expiry Date, Operator Code, Cycle Number information to be written.

• It is double-layered and self-adhesive.

• It is compatible with Medster Label Guns.

• There is LOT, Production Date and Expiry Date information on the product label.

| PRODUCT CODE | PRODUCT DESCRIPTION |
|---|---|
| 30.100 | 3 Lines Indicator Label, Steam 500 pcs/roll |
| 30.200 | 3 Lines Indicator Label, EO 500 pcs/roll |
| 30.300 | 3 Lines Indicator Label, Hydrogen Peroxide ($H_2O_2$) 500 pcs/roll |
| 30.500 | Label Gun (3 lines) |

# MEDSTER

# Sterilization Process Tapes

• Our products meet the performance requirements specifi ed in ISO 11140-1 and EN 867-5 standards.

• It is applied to fi x securely SMS and crepe wrappings.

• Indicator color change is clear, providing visual information about sterilization exposure.

• The product has diff erent types designed to be used in Steam, Ethylene Oxide (EO) and Low-temperature Hydrogen Peroxide (H2O2) sterilization processes.

• Process tape provides clean peeling from the applied area.

• Process tapes are available in 12 mm, 19 mm, 25 mm width and 50 m length.

• There is LOT, Production Date and Expiry Date information on the product label.

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| 10.020 | Autoclave Tape (w/o Indicator), Steam | 12 mm x 50 m | 128 |
| 10.000 | Autoclave Tape (w/o Indicator), Steam | 19 mm x 50 m | 84 |
| 10.010 | Autoclave Tape (w/o Indicator), Steam | 25 mm x 50 m | 60 |
| 10.120 | Autoclave Tape, Steam | 12 mm x 50 m | 128 |
| 10.100 | Autoclave Tape, Steam | 19 mm x 50 m | 84 |
| 10.110 | Autoclave Tape, Steam | 25 mm x 50 m | 60 |
| 10.220 | EO Tape | 12 mm x 50 m | 128 |
| 10.200 | EO Tape | 19 mm x 50 m | 84 |
| 10.210 | EO Tape | 25 mm x 50 m | 60 |
| 10.320 | Plasma Tape, Hydrogen Peroxide ($H_2O_2$) | 12 mm x 50 m | 128 |
| 10.300 | Plasma Tape, Hydrogen Peroxide ($H_2O_2$) | 19 mm x 50 m | 84 |
| 10.310 | Plasma Tape, Hydrogen Peroxide ($H_2O_2$) | 25 mm x 50 m | 60 |

# MEDSTER

# Chemical Indicator Group

- Chemical indicators show the specifi c sterilization conditions that the package is exposed to in the sterilizator
- Chemical indicators are designed to work at certain temperature-time-pressure parameters.
- Our products meet the performance requirements of ISO 11140-1, ISO 11140-4 and EN 867-5 standards.
- According to the sterilization result, the indicator exposure gives clear information.
- The indicator used does not contain lead, heavy metals and other chemicals harmful to health.
- Chemical indicators are classifi ed as Type 2, Type 3, Type 4, Type 5, Type 6.
- Type 2: Specifi c test indicators.
- Type 3: Single parameter indicators.
- Type 4: Multi-parameter indicators.
- Type 5: Integrator indicators.
- Type 6: Emulator indicators

MEDSTER
MEDSTER

## BOWIE & DICK TEST PACK

• Medster SafeCheck Bowie&DİCK Test Packs are produced to detect errors such as air leaks, insuffi cient steam penetration and vacuum pump failure that may occur in pre-vacuum steam sterilizers. netration and vacuum pump failure that may occur in pre-vacuum steam sterilizers

• The Bowie & Dick test pack consists of a series of vapor penetration (air release) barriers with a chemical indicator in the middle.

• The Bowie & Dick Test Pack is manufactured to test the performance of the autoclave at 121°C / 15 minutes or 134 °C/3.5 minutes.

• Our products meet the performance requirements specifi ed in the ISO 11140-4 Class 2/B standard.

• Bowie & Dick Test Packs are designed as 200 sheet ( 4 kg load) and 400 sheet (7 kg load) and packed as crepe wrapped or box type

• Bowie & Dick Test Sheets are designed as single A4 size.

• The Bowie & Dick Test Pack has reliable performance and provides accurate results.

• It shows a clear and defi nite color change after a successful sterilization process.

• The indicator used does not contain lead, heavy metals and other chemicals harmful to health.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our product is 3 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 20.110 | Bowie & Dick Test Pack (Wrap Type), 200 sheet | 90 |
| 20.120 | Bowie & Dick Test Pack (Wrap Type), 400 sheet | 48 |
| 20.210 | Bowie & Dick Test Pack (Box Type), 200 sheet | 84 |
| 20.220 | Bowie & Dick Test Pack (Box Type) 400 sheet | 48 |
| 20.310 | Bowie & Dick Test Sheet A4 Size | 200 |

## PCD HELIX TEST PACK

• PCD Helix Test Strip is suitable for use in pre-vacuum sterilizers and table top Class B type sterilizers.

• It shows the eff ectiveness of steam sterilization processes in lumen medical devices.

• MEDSTER SafeCheck Helix Test Indicators are test indicators designed for use in pre-vacuum steam sterilizers operating at 134°C for 3,5 min or 121°C for 15 min

• Our products meet the performance requirements specifi ed in the ISO 11140-4 Class 2/B standard.

• PCD Helix Test Strip indicator is self-adhesive.

• It shows a clear and defi nite color change after a successful sterilization process.

• The indicator used does not contain lead, heavy metals and other chemicals harmful to health.

• The product is suitable for use with a specially designed test tool.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our product is 3 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 90.200 | PCD Helix Test Indicator | 252 |
| 90.201 | PCD Helix Test Tool | 1 |

## PCD HELIX TEST TOOL

• The PCD Helix Test Tool is designed to facilitate sterilization tracking of lumen medical devices when used with the PCD Helix Test Strip.

• The test tool is made of PTFE and heat-resistant materials.

• The test tool consists of a 150 cm long and 1 mm wide hose.

• The test tool is designed in accordance with vapor permeability.

• The steam entering from the hose at the end of the test tool is designed to reach the test indicator placed on the cover of the tool.

• It is easy to use and ergonomic

## TYPE 4 CHEMICAL INDICATORS / STEAM & H2O2

• Medster SafeCheck Type 4 indicator strip are multi-variable indicators; sensitive to temperature and time parameters.

• It is manufactured in accordance with the temperature and time cycle conditions of sterilization type

• Indicator strips are suitable for use in every bag and load.

• Indicator strips are produced in accordance with ISO 11140-1 standard.

• Indicator strips do not contain lead, heavy metals and other chemicals harmful to health.

• The product is available with specially designed standard model, dual model and adhesive model options.

• It shows a clear and defi nite color change after a successful sterilization process.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our product is 3 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 40.100 | Steam Indicator Strip (Type 4), 250 pcs | 80 |
| 40.110 | Steam Indicator Strip (Type 4), Adhesive, 250 pcs | 80 |
| 40.200 | Steam Indicator Strip (Type 4), Dual, 250 x 2 pcs | 80 |
| 40.210 | Steam Indicator Strip (Type 4), Adhesive, Dual, 250 x 2 pcs | 80 |
| 40.300 | Formaldehyde Indicator Strip (Type 4), 250 pcs | 80 |
| 70.100 | Plasma Indicator Strip (Type 4), 250 pcs | 80 |

## TYPE 5 CHEMICAL INDICATORS & INTEGRATOR STEAM & EO

• Medster SafeCheck Type 5 Chemical Indicators are integrating indicators that strips are sensitive to all critical parameters of the sterilization cycle and are designed to give the closest result of a biological indicator.

• Type 5 Chemical Indicators are designed and manufactured to give accurate results in STEAM and ETO sterilization

• Medster SafeCheck Type 5 Steam integrators are specially designed for steam steriliaziton to monitor progress of the cycle on the window of the integratör.

• Indicator strips and integrators are suitable for use in every bag and load.

• Medster SafeCheck Type 5 indicator strips and integrators are manufactured in accordance with ISO 11140-1 standard.

• Our chemical indicators does not contain lead, heavy metals and other chemicals harmful to health.

• SafeCheck strips shows a clear and defi nite color change after a successful sterilization process.

• Medster SafeCheck chemical indicator strips have been specially designed and is available in single, dual strips designs and with adhesive model option

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our product is 3 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 50.100 | Steam Indicator Strip (Type 5), 250 pcs | 80 |
| 50.110 | Steam Indicator Strip (Type 5), Adhesive, 250 pcs | 80 |
| 50.200 | Steam Indicator Strip (Type 5), Dual, 250 x 2 pcs | 80 |
| 50.210 | Steam Indicator Strip (Type 5), Adhesive, Dual, 250 x 2 pcs | 80 |
| 50.500 | Steam Integrator Indicator (Type 5), 100 pcs | 100 |
| 51.100 | EO Indicator Strip (Type 5), 250 pcs | 80 |
| 51.110 | EO Indicator Strip (Type 5), Adhesive, 250 pcs | 80 |
| 51.200 | EO Indicator Strip (Type 5), Dual, 250 x 2 pcs | 80 |
| 51.210 | EO Indicator Strip (Type 5), Adhesive, Dual, 250 x 2 pcs | 80 |

## TYPE 6 EMULATING CHEMICAL INDICATOR / STEAM

• Steam emulator strips are sensitive to critical parameters of the sterilization cycle such as steam, time and temperature.

• It is manufactured to perform in Steam sterilizers for 134°C - 3,5 minutes, 134°C - 7 minutes, 121 °C - 15 minutes.

• This product is designed as a steam emulator strip.

• It is especially used in the observation of loads that do not contain implants.

• Indicator strips are suitable for use in every bag and load.

• Indicator strips are produced in accordance with ISO 11140-1 standard.

• Indicator strips do not contain lead, heavy metals and other chemicals harmful to health.

• It shows a clear and defi nite color change after a successful sterilization process.

• Medster SafeCheck chemical indicator strips have been specially designed and is available in single, dual strips designs and with adhesive model option.

• There is LOT, Production Date and Expiry Date information on the product label.

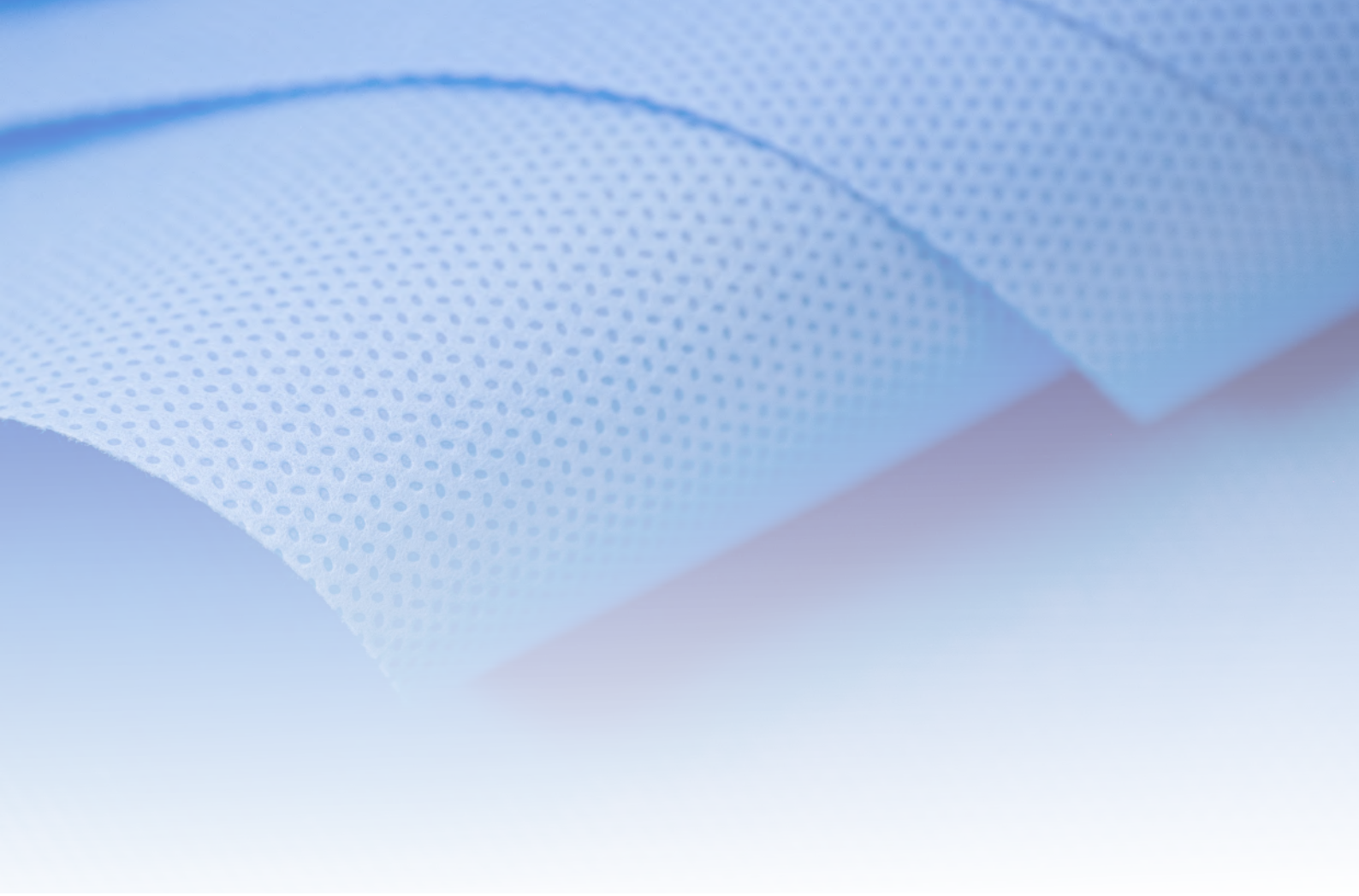
• The shelf life of our product is 3 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 60.103 | Steam Emulator Indicator Strip (Type 6) 3,5 min., 250 pcs | 80 |
| 60.105 | Steam Emulator Indicator Strip (Type 6) 5 min., 250 pcs | 80 |
| 60.107 | Steam Emulator Indicator Strip (Type 6) 7 min., 250 pcs | 80 |
| 60.113 | Steam Emulator Indicator Strip (Type 6), 3,5 min., Adhesive, 250 pcs | 80 |
| 60.115 | Steam Emulator Indicator Strip (Type 6), 5 min., Adhesive, 250 pcs | 80 |
| 60.117 | Steam Emulator Indicator Strip (Type 6), 7 min., Adhesive, 250 pcs | 80 |
| 60.203 | Steam Emulator Indicator Strip (Type 6), 3,5 min., Dual, 250 x 2 pcs | 80 |
| 60.205 | Steam Emulator Indicator Strip (Type 6), 5 min., Dual, 250 x 2 pcs | 80 |
| 60.207 | Steam Emulator Indicator Strip (Type 6), 7 min., Dual, 250 x 2 pcs | 80 |
| 60.213 | Steam Emulator Indicator Strip (Type 6), 3,5 min., Adhesive, Dual, 250 x 2 pcs | 80 |
| 60.215 | Steam Emulator Indicator Strip (Type 6), 5 min., Adhesive, Dual, 250 x 2 pcs | 80 |
| 60.217 | Steam Emulator Indicator Strip (Type 6) 7 min., Adhesive, Dual, 250 x 2 pcs | 80 |

## TYPE 6 REGISTRATION CARD / STEAM

- Medster SafeCheck Registration Cards designed to be used in steam sterilization.
- It is designed to check the effi ciency and guarantee of sterilization to the user.
- There is Class 6 Emulator Indicator on the design.
- There is a fi eld on the product where the sterilization information can be written.
- It can be placed into every load and package in steam sterilization.
- Indicator strips are produced in accordance with ISO 11140-1 standard.
- Indicator strips do not contain lead, heavy metals and other chemicals harmful to health.
- It shows a clear and defi nite color change after a successful sterilization process.
- There is LOT, Production Date and Expiry Date information on the product label.
- The shelf life of our product is 3 years

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 60.500 | Registration Card (Class 6) | 100 |

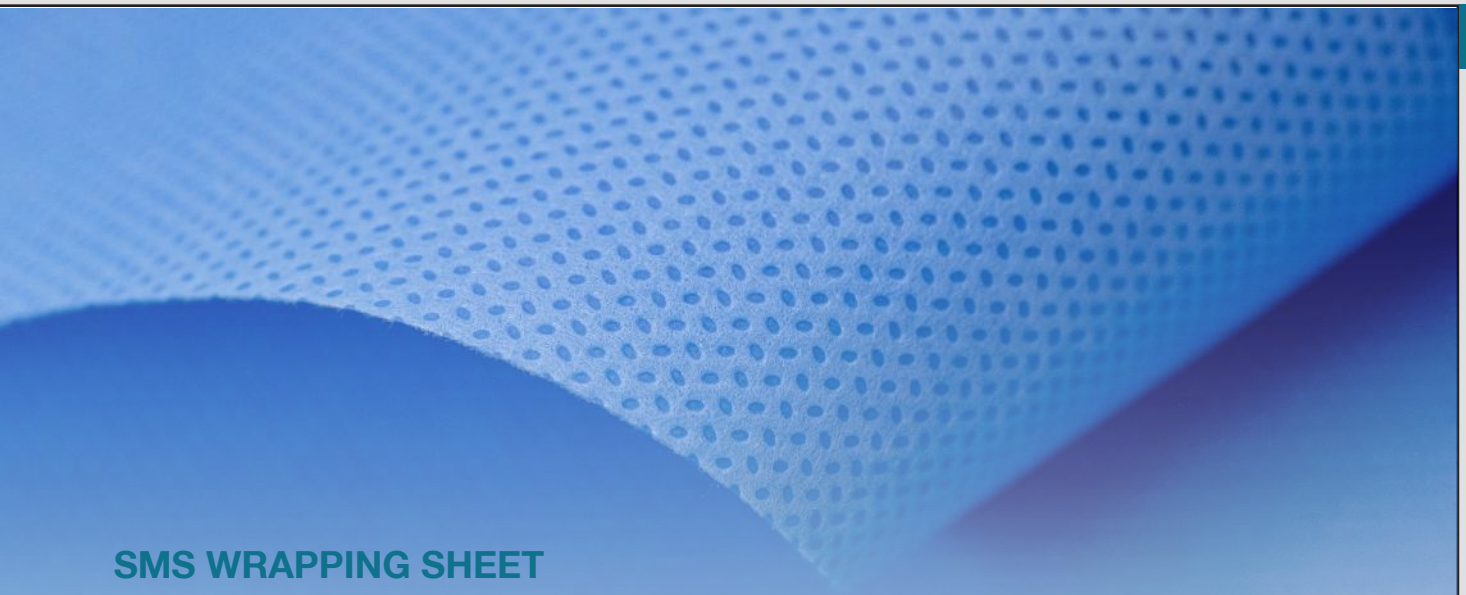


# CREPE / SMS GROUP

## SOFT CREPE PAPER

- Medster SafeCheck Soft Crepe Papers are made of 100% cellulosic high quality medical grade papers.
- It has proven microbial barrier properties.
- Suitable for Steam (Steam), Ethylene Oxide (EO), Formaldehyde (FO) and Gamma sterilization.
- Suitable for both inner and outer packaging.
- A reliable solution to prevent cross contamination
- Wide range of product size and color options
- Complies with ISO 11607 and EN 868-2 standards.

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| CRG2525 | Standard Crepe Paper, Green, 60 GSM | 25cm x 25cm | 4000 |
| CRG3030 | Standard Crepe Paper, Green, 60 GSM | 30 cm x 30 cm | 4000 |
| CRG4040 | Standard Crepe Paper, Green, 60 GSM | 40 cm x 40 cm | 1000 |
| CRG4545 | Standard Crepe Paper, Green, 60 GSM | 45 cm x 45 cm | 1000 |
| CRG5050 | Standard Crepe Paper, Green, 60 GSM | 50 cm x 50 cm | 1000 |
| CRG6060 | Standard Crepe Paper, Green, 60 GSM | 60 cm x 60 cm | 750 |
| CRG7575 | Standard Crepe Paper, Green, 60 GSM | 75 cm x 75cm | 400 |
| CRG9090 | Standard Crepe Paper, Green, 60 GSM | 90 cm x 90cm | 250 |
| CRG100100 | Standard Crepe Paper, Green, 60 GSM | 100 cm x 100cm | 250 |
| CRG120120 | Standard Crepe Paper, Green, 60 GSM | 120 cm x 120 cm | 200 |
| CRB2525 | Standard Crepe Paper, Blue, 60 GSM | 25 cm x 25 cm | 4000 |
| CRB3030 | Standard Crepe Paper, Blue, 60 GSM | 30 cm x 30 cm | 4000 |
| CRB4040 | Standard Crepe Paper, Blue, 60 GSM | 40 cm x 40 cm | 1000 |
| CRB4545 | Standard Crepe Paper, Blue, 60 GSM | 45 cm x 45 cm | 1000 |
| CRB5050 | Standard Crepe Paper, Blue, 60 GSM | 50 cm x 50 cm | 1000 |
| CRB6060 | Standard Crepe Paper, Blue, 60 GSM | 60 cm x 60 cm | 750 |
| CRB7575 | Standard Crepe Paper, Blue, 60 GSM | 75 cm x 75 cm | 400 |
| CRB9090 | Standard Crepe Paper, Blue, 60 GSM | 90 cm x 90 cm | 250 |
| CRB100100 | Standard Crepe Paper, Blue, 60 GSM | 100 cm x 100 cm | 250 |
| CRB120120 | Standard Crepe Paper, Blue, 60 GSM | 120 cm x 120 cm | 200 |



## SMS WRAPPING SHEET

- Made of waterproof fl exible non-woven material made of polypropylene fi bers.
- A reliable solution to prevent cross contamination
- Anti-static and does not contain latex.
- Microbial barrier feature with its porous structure.
- Suitable for Steam, Hydrogen Peroxide (H2O2), Ethylene Oxide (EO), Formaldehyde (FO) and Gamma sterilization.
- Suitable for both inner and outer packaging.
- Available in wide range of dimensions with 40-45 and 60 gr weight options
- Strong, balanced and high tear resistance
- Manufactured in accordance with ISO 11607 and EN 868-2 standards.
- LOT, Production Date and Expiry Date information on the product label.
- The shelf life of our product is 5 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | PRODUCT SIZE | QTY IN BOX |
|---|---|---|---|
| 40SMS3030 | SMS Wrapping Sheet, 40 GSM | 30 cm x 30 cm | 2000 |
| 40SMS4040 | SMS Wrapping Sheet, 40 GSM | 40 cm x 40 cm | 1000 |
| 40SMS5050 | SMS Wrapping Sheet, 40 GSM | 50 cm x 50 cm | 600 |
| 40SMS6060 | SMS Wrapping Sheet, 40 GSM | 60 cm x 60 cm | 500 |
| 40SMS7575 | SMS Wrapping Sheet, 40 GSM | 75 cm x 75 cm | 200 |
| 40SMS9090 | SMS Wrapping Sheet, 40 GSM | 90 cm x 90 cm | 150 |
| 40SMS100100 | SMS Wrapping Sheet, 40 GSM | 100 cm x 100 cm | 200 |
| 40SMS120120 | SMS Wrapping Sheet, 40 GSM | 120 cm x 120 cm | 150 |
| 45SMS3030 | SMS Wrapping Sheet, 45 GSM | 30 cm x 30 cm | 2000 |
| 45SMS4040 | SMS Wrapping Sheet, 45 GSM | 40 cm x 40 cm | 1000 |
| 45SMS5050 | SMS Wrapping Sheet, 45 GSM | 50 cm x 50 cm | 600 |
| 45SMS6060 | SMS Wrapping Sheet, 45 GSM | 60 cm x 60 cm | 500 |
| 45SMS7575 | SMS Wrapping Sheet, 45 GSM | 75 cm x 75 cm | 200 |
| 45SMS9090 | SMS Wrapping Sheet, 45 GSM | 90 cm x 90 cm | 150 |
| 45SMS100100 | SMS Wrapping Sheet, 45 GSM | 100 cm x 100 cm | 150 |
| 45SMS120120 | SMS Wrapping Sheet, 45 GSM | 120 cm x 120 cm | 150 |
| 60SMS3030 | SMS Wrapping Sheet, 60 GSM | 30 cm x 30 cm | 2000 |
| 60SMS4040 | SMS Wrapping Sheet, 60 GSM | 40 cm x 40 cm | 1000 |
| 60SMS5050 | SMS Wrapping Sheet, 60 GSM | 50 cm x 50 cm | 600 |
| 60SMS6060 | SMS Wrapping Sheet, 60 GSM | 60 cm x 60 cm | 400 |
| 60SMS7575 | SMS Wrapping Sheet, 60 GSM | 75 cm x 75 cm | 150 |
| 60SMS9090 | SMS Wrapping Sheet, 60 GSM | 90 cm x 90 cm | 150 |
| 60SMS100100 | SMS Wrapping Sheet, 60 GSM | 100 cm x 100 cm | 150 |
| 60SMS120120 | SMS Wrapping Sheet, 60 GSM | 120 cm x 120 cm | 100 |

# MEDSTER

# Performance Test Group

## WASHER DISINFECTOR & ULTRASONIC CLEANING INDICATORS

• Medster SafeCheck Cleaning Indicators is perfect to check the effi ciency of the washing and disinfection machine and for the traceability of the process.

• Available as PVC and Aluminum indicators

• Provides visual information to the user.

• Ergonomic and Easy-to-Use

• Should be used together with the washer disinfector cleaning indicator holder.

• Complies with ISO 15883-5 standard.

• There is LOT, Production Date and Expiry Date information on the product label.

• The shelf life of our product is 5 years.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 90.100 | Washer Disinfector Cleaning Indicator, PVC | 100 |
| 90.110 | Washer Disinfector Cleaning Indicator, Metal | 250 |
| 90.150 | Ultrasonic Cleaning Indicator | 250 |
| 90.111 | Holder | 1 |

## ULTRASONIC BATH CLEANING PERFORMANCE TEST

• Medster SafeCheck Ultrasonic Bath Cleaning Performance Tests are perfect to monitor the performance and effectiveness of ultrasonic baths.

• Provides visual information to the user.

• Ergonomic and easy-to-use design.

• Complies with ISO 13485 Standard.

• There is LOT, Production Date and Expiry Date information on the product label.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 90.160 | Ultrasonic Bath Cleaning Performance Test, SoniSafe | 24 |

## PROTEIN RESIDUE TEST

• Protein Residue Test tests whether there is protein residue on the surfaces of medical devices after washing.

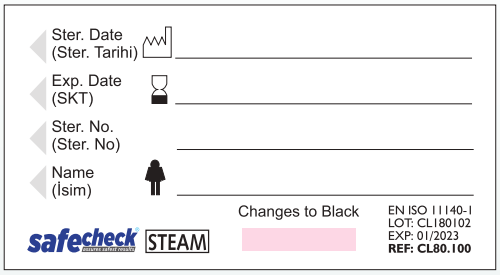
• The application gives results in 10-20 seconds with 1 mq sensitivity.

• The reference color changes according to the presence of protein.

| PRODUCT CODE | PRODUCT DESCRIPTION | QTY IN BOX |
|---|---|---|
| 90.300 | Protein Residue Test, SafeCheck | 25 |

# MEDSTER

# Security Seal and Label Group




## CONTAINER LABEL

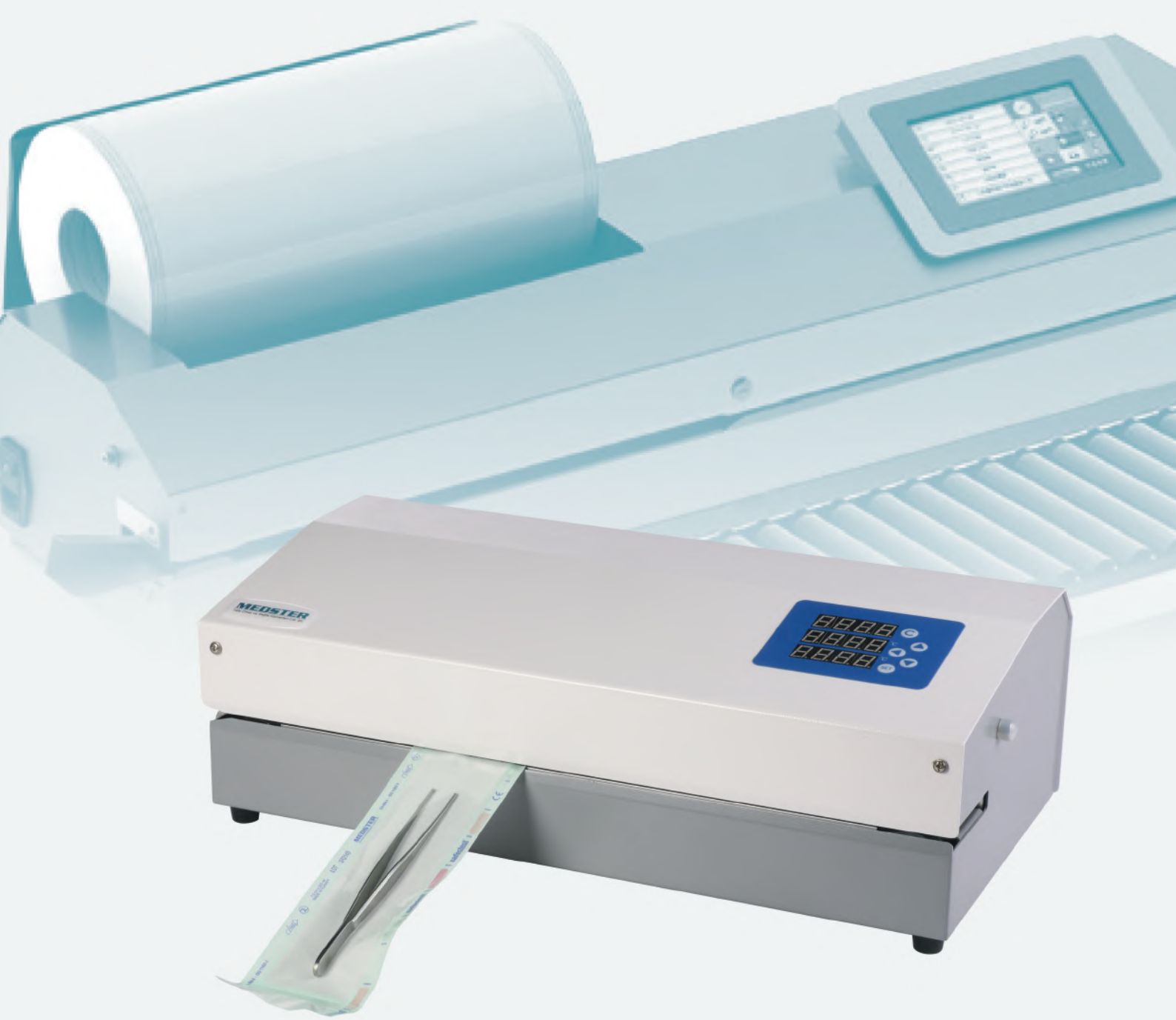
- For use in steam sterilization processes.
- Complies with ISO 11140-1 and EN 867-5 standards.
- The product is designed to be used in steam sterilization processes at 121°C, 132°C or 134°C.
- Indicator ink is sensitive to process parameters of steam sterilization.
- The indicator used does not contain lead, heavy metals and other chemicals harmful to health.
- Clear color change on the indicator
- Suitable for recording Sterilization Date, Expiry Date, Sterilizer Number and User Name information on the label

| PRODUCT CODE | PRODUCT DEFINITION | QTY IN BOX |
|---|---|---|
| 80.100 | Container Label (Steam) | 100 |

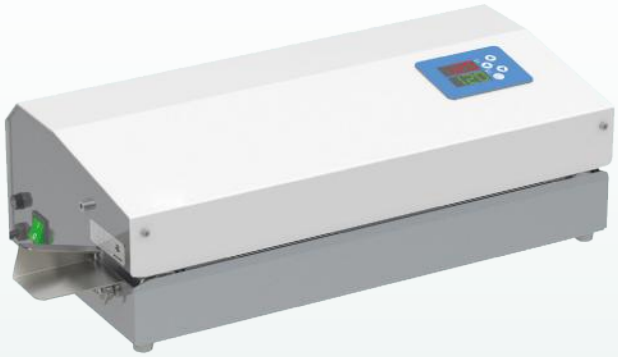
## CONTAINER PLASTIC SECURITY SEALS

- Plastic security seals are designed for single use.
- It is applied on the container for security purposes before the sterilization process.
- It ensures safe use of sterilization materials by breaking them after the sterilization process.
- Container locks are available with and without indicator.
- Container locks with indicator are produced in accordance with ISO 11140-1 and EN 867-5 standards.
- The indicator used does not contain lead, heavy metals and other chemicals harmful to health.
- Key process indicators provide clear color conversion.
- Container locks are offered in blue and red color options.
- Easy to use.
- Made of durable plastic material.

| PRODUCT CODE | PRODUCT DEFINITION | QTY IN BOX |
|---|---|---|
| 80.210 | Container Plastic Security Seals (w/o Indicator) | 100 |
| 80.220 | Container Plastic Security Seals (with Indicator) | 100 |




# Sealing Devices



## MKC 400 SEALING DEVICE

- The device automatically performs the pouch sealing process.
- Sealing temperature can be adjusted digitally.
- It can reach 180 °C in 40 seconds with its fast heating system.
- Advanced fl at ceramic heating elements are extremely long-lasting.
- Adjustable printing system is available.
- It can seal between 60 °C – 220 °C with an accuracy of ±1 °C.
- Sealing speed is 10 m/min.
- The sealing width is 12 mm, and it adheres very strongly with barrier in the type of sterilization reels.
- It can seal any size of reel with its rotating wheel system.
- It has automatic cooling system.
- It measures 480 × 240 × 150 mm and weighs 15 kg.

## MYKC 100 SEALING DEVICE WITH PRINTER

- The device automatically seals and prints.
- Sterilization Date, Expiry Date, LOT, Operator, etc., thanks to its automatic printer can print the information on the reels.
- Instant adhesive force, adhesion temperature, sealing speed, date and time information can be printed for installation and operational competence studies. Adhesion and impermeability tests can be applied.
- 7” LCD color touch screen is available.
- It can reach 180 °C in 40 seconds with its fast heating system.
- It can seal between 60 °C – 220 °C with an accuracy of ±1 °C.
- Sealing speed is 10 m/min.
- The sealing width is 12 mm, and it adheres very strongly with barrier in the type of sterilization reels.
- It can seal any size of reel with its rotating wheel system.
- Ceramic type resistors have a very long life.
- It has automatic cooling system.
- It measures 560 × 260 × 220 mm and weighs 18 kg.

## MKKC 300 CUTTING AND SEALING DEVICE

• The Cutting and Sealing Machine is suitable for pouches, envelopes and reels.

• The machine has an interface that provides simple operation and reliable performance, and a 4.3" color LCD touch screen.

• Cutting and Sealing Machines automatically cut and seal pouches, envelopes and reels in the desired size and amount according to the given parameters.

• These high performance machines are ideal alternatives to manual cutters due to their simplicity and ease of use.

• It is widely used to cut various paper and plastic packaging material in sterilization departments of hospitals.

• Precise temperature control and constant contact pressure and sealing speed ensure repeatable sealing results.

• If the sealing temperature is outside the tolerance of ± 4 °C, the device will turn off automatically.

• The device measures 600 x 350 x 320 mm and weighs 30 kg.

## MKKC 200 CUTTING AND SEALING DEVICE WITH PRINTER

• The device automatically performs the cutting and sealing process.

• More than one sterilization reel can be loaded side by side.

• It has a 7" touchscreen LCD color screen. With the Android operation system, graphical operation monitoring and real-time applications are possible.

• Thanks to its fast heating system, it can reach 180 °C in 40 seconds.

• It can seal between 60 °C – 220 °C with an accuracy of ±1 °C.

• Sealing speed is 10 m/min.

• The sealing width is 12 mm, and it adheres very strongly with barrier in the type of sterilization reels.

• Suitable to work with reels up to 40 cm wide.

• Minimum cutting and sealing distance is 50 mm.

• It measures 960 × 280 × 230 mm and weighs 34 kg.

MEDSTER

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