



# PRODUCT CATALOGUE



Safe Way in Sterilization

# ABOUT US

Ftm Ambalaj Medikal Ith.Ihr.San.Tic.Ltd.Sti. was established in 2010.

The company, which improves itself every year, is one of the companies producing sterilization packaging in Turkey.

We are proud to be the only company that produces Tyvek header bag sterilization bags in Turkey.

Over time, it has also included sterilization control items and the production of laminated CPP+PET and PE+PET films used in production.

FTM Ambalaj's new factory building was completed at the end of 2022 and has a closed area of approximately 13,000 m<sup>2</sup>. Our factory building is designed to produce at highest standards with its modern structure and technological infrastructure.

Our company aims to significantly meet the demand for high quality sterile barrier system packaging in the domestic and international market with the product quality production capacity. In addition, our company continues to grow, especially in the export market, as a constant participant in important international fairs and organizations.

# CERTIFICATES



**ISO 11140-1**



**ISO 868-5**



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# STERILIZATION PACKAGING

## TYVEK HEADERBAG

Tyvek Headerbag is produced from 100 micron PE and coated tyvek material. It is suitable for ethylene oxide, H<sub>2</sub>O<sub>2</sub> and Gamma Sterilization methods. With its wide range of sizes, it offers a robust and stylish packaging option, especially for large set materials.



- Transparent multilayer 100 mic. With the PE film, the product in the package can be seen easily.
- Non-toxic, highly resistant, reinforced film
- It opens cleanly, does not remove particles from the paper.
- The plastered Tyvek window part has high gas permeability.
- Suitable for EO, Gamma and Plasma sterilization.



# STERILIZATION PACKAGING

## 1-) FLAT STERILIZATION ROLL

Sterilization reels, designed as a packaging solution for sterilization applications, ensure the safe sterilisation and protection of the medical device from the point of sterilization to its use. The sterilization reels are made from transparent multi-layer copolymer PET/ CPP film and medical kraft paper. They have printed process indicators for Steam, Ethylene Oxide, Plasma or Formaldehyde, which are water-based and non-toxic in accordance with ISO 11140-1 standard. These indicators allow the distinction between processed and unprocessed packages.

- Non-toxic, highly resistant, reinforced film
- 1st class, sterile barrier 60 gr/m<sup>2</sup>, 70 gr/m<sup>2</sup> medical kraft paper
- It can be easily closed with all kinds of countertop closing devices.
- Clean and precise indicator color conversions
- Tear-free and fiber-free opening
- Formaldehyde indicator is applied upon request.



## 2-) TYVEK STERILIZATION ROLL

DuPont Tyvek stable packaging is rare in the classification of strength, durability and it has tear resistance. It is suitable for hydrogen peroxide, ethylene oxide and gamma sterilization methods. Tyvek sterilization rolls are made of transparent multilayer copolymer PET/PE and Tyvek material is produced. Water-based and non-toxic process indicators in accordance with ISO 11140-1 standard are applied to the DuPont Tyvek surface and allow to distinguish between treated and untreated packages.

- Superior microbial barrier property
- Easy opening
- Easy closing
- Clean and precise indicator color conversion



## 3-) GUSSETED STERILIZATION ROLL

Sterilization designed as a packaging solution for sterilization application. The rolls are free from bacteria from post-sterilization to use of the medical device. provides safe protection. Sterilization rolls are made of transparent multilayer copolymer PET/ CPP film and it is produced from medical kraft paper. Water based, conforming to ISO 11140-1 standard and non-toxic steam and ethylene oxide process indicators are applied to the paper surface. and allow to distinguish between processed and untreated packages.

- Non-toxic, highly resistant, reinforced film
- It can be easily closed with all kinds of countertop closing devices.
- Clean and precise indicator color conversions
- Tear-free and fiber-free opening
- Formaldehyde indicator is applied upon request.



# STERILIZATION PACKAGING

## 4-) FLAT STERILIZATION POUCH

Designed as a packaging solution for sterilization applications, sterilization bags are used in the medical device. It provides safe protection from bacteria from after sterilization to use.

Sterilization bags are produced from transparent multilayer copolymer PET/PP film and medical kraft paper. Process by applying water-based and non-toxic process indicators to the paper surface in accordance with ISO 11140-1 standard. It allows to distinguish between seen and unseen packages.

- Non-toxic, highly resistant, reinforced film
- 1st class, sterile barrier 60 gr/m<sup>2</sup>, 70 gr/m<sup>2</sup> medical kraft paper
- It can be easily closed with all kinds of countertop closing devices.
- Clean and precise indicator color conversions
- Tear-free and fiber-free opening
- Formaldehyde indicator is applied upon request.



## 5-) TYVEK STERILIZATION POUCH

DuPont Tyvek has toughness, durability and tear resistance that are rare in the stable packaging classification. It is suitable for Hydrogen Peroxide, ethylene oxide and Gamma sterilization methods.

Tyvek sterilization bags are produced from transparent multi-layered copolymer PET/PE and Tyvek material. Water-based and non-toxic process indicators complying with the ISO 11140-1 standard are applied to the DuPont Tyvek surface and distinguish between treated and untreated packages.

- Superior microbial barrier property
- Easy opening
- Easy closing
- Clean and precise indicator color conversion



## 6-) SELF-SEAL STERILIZATION POUCH

Self-adhesive sterilization bags are supplied pre-folded and provide clean and easy closure without the need for a sealing machine. Self-adhesive sterilization bags are produced from transparent, multi-layered copolymer PET/PP film, medical kraft paper and adhesive tape. Water-based and non-toxic steam and ethylene oxide process indicators in accordance with ISO 11140-1 standard

It is applied to the paper surface and allows to distinguish the treated and untreated packages.

- 1st class 60 gsm or 70 gsm medical paper
- Easily adjust the closing location of the package with the package closing perforation
- No shut-off device required.
- Its adhesion feature is first class, with adhesive tape.
- EN 11140-1 compliant water-based, non-toxic process indicators

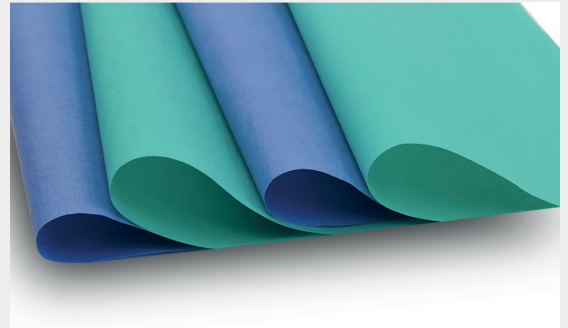


# STERILIZATION PACKAGING

## 7-) STANDARD CREPE PAPER

Medical crepe papers are made from 100% cellulose fibers and are both inner and outer bundling material. Can be used as Crepe papers steam, ethylene oxide, formaldehyde and gamma sterilization methods and provides a safe solution against bacterial contamination.

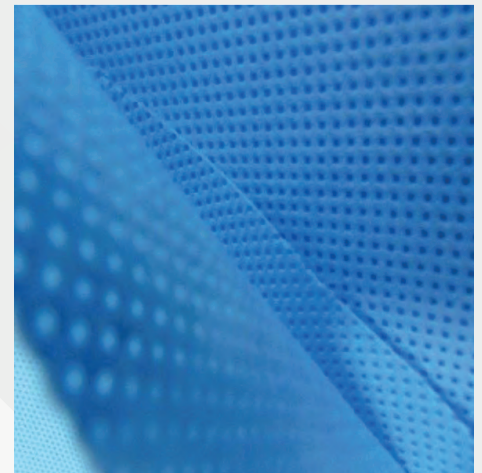
- Various sizing options
- High bacterial filtration property
- Proven microbial barrier
- Suitability for steam, ethylene oxide, formaldehyde and gamma



## 8-) SMMS WRAP

SMMS Wraps consist of nonwoven polypropylene material. Spunbond layer good filtration, aspiration resistance and water repellency properties, Meltblown layers with small pore size It has strong bacterial barrier properties. SMMS Wraps can be used as single or dual use packaging steam, ethylene oxide, hydrogen peroxide plasma. and gamma sterilization methods.

- Superior microbial barrier
- 45-60gsm
- strong and durable
- Liquid repellent, moisture resistant
- Good puncture, tear resistance





# STERILIZATION CONTROL PRODUCTS

## 1-)EO CLASS 5 INDICATOR STRIP

Class 5 ethylene oxide (EO) indicator strips are used in ethylene oxide sterilizers designed to be used. Indicator strips per sachet or bundle It can be used in the package and gives information about the population of ethylene oxide gas into the package. Water-based and non-toxic chemical indicator in accordance with ISO 11140-1 standard It shows clean and sharp color transformation after successful ethylene oxide sterilization.

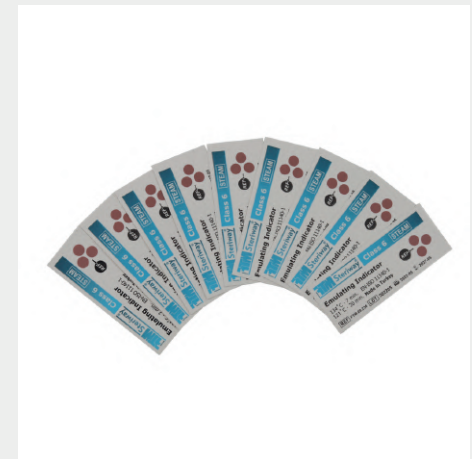
- Single strip design
- Designed for ethylene oxide (EO) sterilization
- Water-based, non-toxic chemical indicator
- Clean and sharp color rendering



## 2-)CLASS 6 STEAM INDICATOR STRIP

Class 6 Steam indicator strips at 121°C – 15 minutes and 134°C – 7 minutes parameters It is designed for use in operating steam sterilizers. Water-based and non-toxic chemical in accordance with ISO 11140-1 standard The indicators show a clean and sharp color transformation after successful steam sterilization.

- Single strip design
- Designed for steam sterilization (134°C – 7 minutes, 121°C – 15 minutes)
- Water-based, non-toxic chemical indicator
- Clean and sharp color rendering



## 3-)H2O2 PLASMA INDICATOR STRIP

H2o2 plasma indicator strips in low temperature hydrogen peroxide plasma sterilizers designed to be used. Indicator strips in each sachet/-pack available and provides information on the hydrogen peroxide gas population Water-based and non-toxic chemical indicator in accordance with ISO 11140-1 standard It shows clean and sharp color transformation after successful hydrogen peroxide plasma sterilization.

- Single strip design
- Designed for steam sterilization (134°C – 7 minutes, 121°C – 15 minutes)
- Water-based, non-toxic chemical indicator
- Clean and sharp color rendering



# STERILIZATION CONTROL PRODUCTS

## 4 -) **CLASS 5 INTEGRATOR (PROGRESSIVE) INDICATOR STRIP**

Type 5 Laminated Integrator is used to evaluate the parameters of the sterilization process on-site and It is designed to give instant results. It can be used in all steam sterilizers as a built-in package monitor. The integrator quickly changes color when sterilization parameters are reached.

- Single strip design
- Water-based, non-toxic chemical indicator
- Clean and sharp color conversion
- Company specific design



## 5-) **EXPOSURE (AUTOCLAVE) TAPE**

Autoclave bands are designed to close wraps used for bundling. With the indicators printed on the tape, it can be understood whether the product has been sterilized or not. Autoclave belts are suitable for steam, ethylene oxide and hydrogen peroxide methods and provide a clean peel from the wrench. The indicator is available as printed or unprinted.

- Suitable for steam, EO and Hydrogen peroxide sterilization
- Unprinted tape option
- Clean peeling from wraps
- Sharp indicator color conversion



## 6-) **BOWIE & DICK TEST PACK**

To evaluate the air extraction performance of Ftm Steriway test packs steam sterilisers. They are disposable and pre-packaged test packs designed for There is a water-based and non-toxic indicator printed test card in the middle of each package. After steam sterilization, the indicator The homogeneous color transformation shows that all the air in the boiler is replaced by steam. There are areas on the back surface of the test card that can be filled for traceability purposes and stored for recording purposes.

- Disposable, pre-packaged and ready-to-use test packs
- Designed for steam sterilization (134°C / 3.5 minutes – 121 °C / 15 minutes)
- Clean and sharp indicator color change
- Test cards can be stored for recording
- 200 and 400 sheets



# STERILIZATION CONTROL PRODUCTS

## 7-) DOCUMENTATION LABEL

Adhesive documentation labels are designed for steam, ethylene oxide and H2O2 sterilization methods. Chemical indicator conforming to ISO 11140-1 standard and free of lead after successful sterilization shows a sharp color change.

- Self adhesive label
- Suitable for steam, EO and H2O2 sterilization
- Process indicator that does not contain lead and toxic substances
- Sharp color transformation
- Compliant with ISO 11140-1 standard



## 8-) DOCUMENTATION LABEL GUN

The Label Gun provides an easy-to-use and printing solution for documentation labels used for recording purposes. The tag gun has a three-line printing feature. It is used to print important traceability information such as sterilization and expiry date, operator code and autoclave number.



## 9-) CONTAINER LOCK (PLASTIC SECURITY LOCK)

The container lock is made of special plastic material and can only be opened by breaking it. It acts as a security to prevent unauthorized people from opening it. Quickly identify tools, trays, trolleys or other equipment. or is the simplest method for marking.

- Disposable
- With and without Indicator
- It acts as a security
- EN 11140-1 compliant



## 10-) CONTAINER FILTER

Container filters are soft and porous disposable round medical paper filters used together with sterilization containers and for sterilization of surgical use materials. It is suitable for all kinds of containers and baskets. Container Filters are placed on the lid and body of the sterilization container to ensure steam passage during sterilization and to maintain sterility after sterilization.

- Disposable
- Water-based, non-toxic indicator
- EN 11140-1 compliant



# INDUSTRIAL PRODUCTS

## 1-)MEDICAL KRAFT PAPER

Medical Kraft Paper is designed to be 100% cellulose fiber and to provide sterilization pass. Thanks to the special dense and matted layer structure of the fibers after sterilization and during storage It provides high microbial barrier performance. It is suitable for steam, ethylene oxide and formaldehyde sterilization methods.



- High BFE (Bacterial Filtration Efficiency)
- Printed or unprinted option
- In 60gsm, 70gsm weights
- Conforming to standards



# INDUSTRIAL PRODUCTS

## 2-)TYVEK

DuPont Tyvek stable packaging is rare in the classification of strength, durability and tearing. Has resistance. It is suitable for H<sub>2</sub>O<sub>2</sub>, ethylene oxide and Gamma sterilization methods. High density polyethylene (HDPE) fibers by DuPont company with the help of heat and pressure produced by combining. High strength, excellent barrier thanks to the unique manufacturing process It is an air permeable medical packaging material.

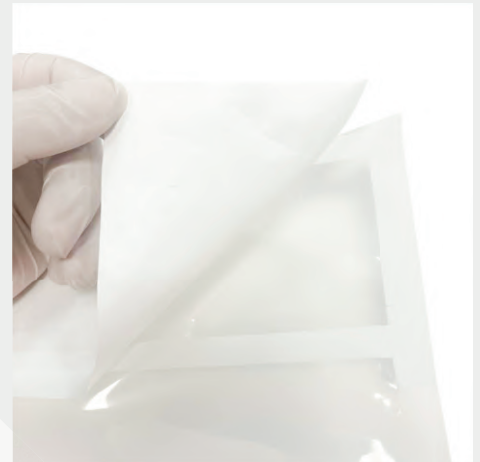
- High Bacterial Filtration Efficiency (BFE)
- High puncture and tear resistance
- Suitable for H<sub>2</sub>O<sub>2</sub>, Ethylene Oxide, Gamma Sterilization
- High adhesion performance with PET/PE Film
- Printed and Unprinted Option



## 3-)COATED TYVEK

Coated Tyvek is obtained from a special chemical drug used on DuPont Tyvek and is specially produced for Tyvek Headerbag, blister and thermoform packaging closures. Suitable for H<sub>2</sub>O<sub>2</sub>, Ethylene oxide and Gamma sterilization methods.

- High puncture and tear resistance
- Suitable for H<sub>2</sub>O<sub>2</sub>, Ethylene Oxide, Gamma Sterilization
- High adhesion performance with PE, PE/PET Film and Blister
- Printed and Unprinted Option
- Sizing in special sizes

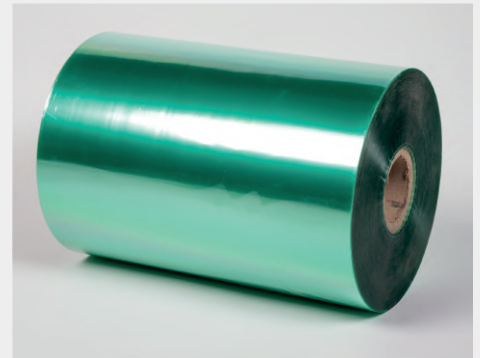


# INDUSTRIAL PRODUCTS

## 4-)CPP/PET FILM

CPP/PET film has been specially developed for the packaging of sterile medical devices and is suitable for steam, ethylene oxide and formaldehyde sterilization. The film provides easy adhesion to medical paper and clean peeling.

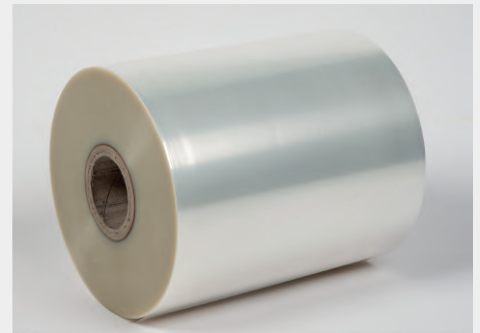
- Compatible with Medical Kraft Paper
- 40 micron CPP + 12 micron PET
- Suitable for steam, ethylene oxide and formaldehyde sterilization
- High resistance to punctures, tears and tears before and after sterilization break resistant
- Clear exterior
- Low haze
- Easy adhesion and peeling with medical paper



## 5-)PE/PET FILM

Specially developed for PE/PET Film Tyvek packaging. It is suitable for H<sub>2</sub>O<sub>2</sub>, Ethylene Oxide and Gamma sterilization and offers packaging manufacturers the opportunity to work in a wide temperature range. The specially developed film offers a cost-effective solution for high-quality sterilization packaging.

- High Bacterial Filtration Efficiency (BFE)
- High puncture and tear resistance
- Suitable for H<sub>2</sub>O<sub>2</sub>, Ethylene Oxide, Gamma Sterilization
- High adhesion performance with PET/PE Film
- Printed and Unprinted Option



# MEDICAL CLOSURE SYSTEMS

## 1-)CUTTING RACK

- Double Shelf
- Stainless steel chassis
- High quality cutting blade



## 5-)SEALING MACHINE

- The device automatically shuts down.
- The closing temperature can be adjusted digitally.
- Thanks to its fast heating system, it can reach 180°C in 40 seconds.
- The advanced flat ceramic heating elements are extremely long-lasting.
- It can close in the range of 60 ~ 220°C with an accuracy of  $\pm 1$  °C.
- Closing speed is 10 m/min.
- The closure width is 12 mm and it makes a very strong bonding with barrier in the type of sterilization rolls.
- It can close any size roll with its rotating wheel system.
- It has automatic cooling system.
- It measures 480×240×150 mm and weighs 15 kg.



