

## Microbial barrier for safety

PLUSAFE series of sterilization rolls & pouches provide a microbial barrier to ensure protection of surgical instruments against contamination from sterilization time to the date they were used. Multilayer co-polymer film and medical grade paper or Tyvek® are used for manufacturing. Water based, non-toxic indicators for steam and EO or H2O2 plasma sterilization complying with EN 11140-1 are applied to paper surface, below film to prevent pigment migration, which shows colour change for process assurance. Easy to open, tear & fibre free rolls, also show direction of opening, are suitable for aseptic presentation. Rolls suitable for steam sterilization are also available in gusseted versions as well. It is possible to have customized pouches on demand in various sizes.



PLUSAFE series wrapping papers provide a reliable barrier in sterilization for wrapping trays to prevent cross-contamination. It is possible to use them with various sterilization methods including H2O2 plasma sterilization. Depending on sterilization method it is possible to have 100% cellulose or SMS wrapping papers.

## Your health secured

PLUSAFE series safety goggles are used to protect operators from impacts of steam, heat, chemicals and water. Protective gloves, aprons, face masks and glasses are available where all are made of suitable materials for assuring safety.



## Chemicals & detergents for all surfaces

PLUSAFE series chemical sprays are used for maintenance of steam sterilizers and other stainless steel equipment in CSSD. Stainless maintenance spray is for general use in all stainless steel surfaces while gasket maintenance spray and lubrication gel is for gaskets used in PLUSATEAM series of steam sterilizers. In addition to maintenance products, PLUSAFE series also offers a wide range of cleansing detergents. Cleansing detergents can be used for instrument disinfection, ultrasonic cleaning, surface disinfection and personal hygiene in CSSD.



## Infection control in daily routine

Hand hygiene substantially reduces potential pathogens on the hands and is considered a primary measure for reducing the risk of transmitting organisms to patients and health care personnel. Hospital-based studies have shown that noncompliance with hand hygiene a practice are associated with healthcare related infections, the spread of multi-resistant organisms, and has been a major contributor to outbreaks. PLUSAFE series infection control products includes elbow, foot or photocell operated dispensers, hand driers and paper towel dispensers in order to ensure safety for operators while improving process safety.



Our models and their specifications are given below:

REFERENCE NO	DESCRIPTION
<b>STERILIZATION PACKING</b>	
911050/075/100/150/200/250/300/350/400-200F911100 – 911135	STERILIZATION ROLLS STEAM/EO FROM 50MM TO 400 MMX200MT
911075/100/150/200/250/300/350/400-200G	GUSSETED STERILIZATION ROLLS STEAM/EO FROM 75MM TO 400MMX200MT
911075-250S TO 911400-600S	SELF SEAL STERILIZATION POUCHES FROM W: 75 TO 400MM, L: 250 TO 600MM
911050-200P TO 911500-600P	STERILIZATION POUCHES FROM W: 50 TO 500MM, L: 200 TO 600MM
912050/075/100/150/200/250/300/350/400-070T	TYVEK STERILIZATION ROLLS FOR H2O2 PLASMA FROM 50MM TO 400MMX70MT
912075-200P TO 912250-350P	TYVEK STERILIZATION POUCHES FROM W: 75 TO 250MM, L: 200 TO 350MM
913030-030W TO 913120-120W	WRAPPING PAPERS FROM W: 30 TO 120CM, L: 30 TO 120CM
913030-030S45 TO 913130-150S45	SMMS WRAPPING PAPERS FROM W: 30 TO 130CM, L: 30 TO 150CM, 45 GSQM
913030-030S60 TO 913130-150S60	SMMS WRAPPING PAPERS FROM W: 30 TO 130CM, L: 30 TO 150CM, 60 GSQM
913000-000S00	SMMS WRAPPING PAPER, CUSTOMS SIZE
913000-000W	WRAPPING PAPER, CUSTOMS SIZE
<b>STERILIZATION MONITORING</b>	
914000/914001/002/003	BOWIE & DICK TEST PACKS & BOXES (200 OR 400 SHEETS)
914004	BATCH CONTROL FOR HELIX TEST - STEAM
914005	BOWIE & DICK HELIX TEST - STEAM
914010	BOWIE & DICK TEST SHEET
914400/402	ADHESIVE TAPE W/ OR W/O INDICATOR - STEAM (W X L: 25MM X 50M)
914401/403	ADHESIVE TAPE W/ OR W/O INDICATOR - STEAM (W X L: 19MM X 50M)
914404	ADHESIVE TAPE W/ INDICATOR - H2O2 PLASMA (W X L: 19MM X 50M)
914900/901	PAPER ROLL FOR THERMAL PRINTERS
915000	CLASS 6 EMULATING INDICATOR - STEAM (250 PCS/BOX)
915020	CLASS 4 MULTI-VARIABLE INDICATOR - STEAM (250 DUAL STRIPS/BOX)
915030	VH2O2 PLASMA INDICATOR (250 PCS/BOX)
915050	CONTAINER REGISTRATION CARDS (250 PCS/BOX)
915070	ADHESIVE LABEL ROLL - STEAM (600 LABELS/ROLL)
915071	LABEL GUN - 3 LINE
915001/002/003	INCUBATORS FOR BIOLOGICAL INDICATORS
915007/008/009	CLEANING PERFORMANCE TEST INDICATOR HOLDERS
915910/911/912	SELF CONTAINED BIOLOGICAL INDICATORS – STEAM
915951/952	SELF CONTAINED BIOLOGICAL INDICATORS – VH2O2/PLASMA
915990/991/992/993	CLEANING PERFORMANCE TEST INDICATORS
<b>DISINFECTION &amp; CLEANING CHEMICALS</b>	
916000/005	GASKET & STAINLESS STEEL MAINTENANCE SPRAYS
916010	LUBRICATION SPRAY FOR OIL FREE GASKETS
916100	TOOL CARE PRODUCTS – CARE
916200	INSTRUMENT DISINFECTANTS - HYDROXY
916300	INSTRUMENT DISINFECTANTS – SAFE
916400	HAND & SKIN ANTISEPTIC – SEPT
916500	FLOOR & SURFACE DISINFECTANTS - QUARTA
916600	FLOOR & SURFACE DISINFECTANTS - SPRY
<b>INFECTION PREVENTION</b>	
917001/002/003/101/102/201/202	DISINFECTANT DISPENSERS, HAND DRYERS & TOWEL DISPENSERS
917301/203/303/304/305/306/307/308/309	METAL WASTE BINS & STAINLESS WASTE BINS
917401/402/403/404/405	CLEANING CARTS WITH MOB BUCKET
<b>SAFETY GOGGLES</b>	
919000/001/005	SAFETY GLASSES & FACE MASKS
919010/011/012/013	PROTECTIVE APRONS (SIZE: S, M, L, XL)
919020/021/022/025/026/027	PROTECTIVE GLOVES (LONG / SHORT STOCKING, SIZE: 8, 9, 10)

\*Please refer to our related datasheets for more information on our products.



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TURQUOISE BIOMEDICAL TECHNOLOGIES

*Manufactures Happiness! :-)*



# PLUSAFE

Packing, Monitoring, Safety, Cleaning & Infection Control Solutions

www.tbtmedical.com

## ✚ Safety for instruments, processes, operators & areas

PLUSAFE series is designed to offer maximum protection and safety during the complete workflow in a CSSD. Safety may mean forming a microbial barrier or monitoring of process while it means also protection for operators from risks and providing infection control at designated CSSD area and disinfection in surfaces. The wide range of scope is covered with various solutions to be offered from a single source. All PLUSAFE series products are in compliance with international standards.

## Monitoring every result for assurance

PLUSAFE series Bowie & Dick Test Packs are designed to evaluate performance of the air removal in pre-vacuum steam sterilizers in compliance with EN 285 standards under certain parameters. An indicator sheet with water based, non-toxic chemical indicator is placed in centre of package. The test sheet's backside provides a data storage area for various parameters for recording & traceability.



Bowie-Dick Test Box in 200 & 400 Sheets



Bowie-Dick Test Pack Available in 200 & 400 Sheets



Bowie-Dick Test Sheet

✚ TBT offer also biological indicators specifically designed for monitoring vacuum sterilization processes. If the sterilization process was not successful, the indicator medium will change colour after incubation at, thus indicating the presence of living *Geobacillus stearothermophilus* spores. Biological indicators offer readout times starting from 1 hour as super rapid to 2 - 3 hours rapid and 24 hours' standard.

PLUSAFE series adhesive tapes with or without indicator provides a solution for durable closing of wrapped packages while peeling is still easy. An indicator ink printing is used for monitoring exposure of steam, EO or plasma. It is possible to have tapes without ink as well.



Adhesive Tape with or w/o Indicator



Easy Solutions for Monitoring in CSSD



Container Registration Cards

PLUSAFE Container Registration Cards for steam are placed on the outside of sterilization containers each time the container is sterilized in order to indicate proper exposure to sterilization parameters. They give visual indication that the sterilization container has been exposed to sterilization. Cards contain space to indicate key information including sterilization date, expiry date, sterilizer number and name of operator.



Bowie-Dick & Batch Control Helix Tests with PCD

PLUSAFE PCD Helix test packs are used as a daily test for pre-vacuum hospital sterilizers for steam penetration capabilities and can replace Bowie-Dick test packs. It should be used in sterilizers when mainly hollow instruments are sterilized. The PCD challenge device is made of stainless steel for long lifetime expectancy.



Adhesive Label Roll with Indicator

PLUSAFE series adhesive labels are available with chemical indicator for steam or ethylene oxide sterilization methods. Together with label gun, the labels can be printed and placed for improved with traceability by presenting various data parameters like sterilization date, expiry date, sterilizer no and cycle no.

PLUSAFE series chemical indicators are designed to be used in steam sterilizers and plasma sterilizers. Chemical indicators include Class 4 Multi-Variable Indicators for steam, Class 5 Integrating Indicators for steam, Class 6 Emulating Indicators for steam, VH2O2 Plasma Chemical Indicators and Container Registration Cards. The water based, lead free and non-toxic chemical indicator in compliance with EN ISO 11140-1 will show a clear and accurate colour change. All indicators are placed inside a safety locked box with easy opening.



Dual Strip Design for Economy in CSSD

PLUSAFE Class 4 Multi-Variable Indicators for steam can be used in every pack in order to verify the steam penetration into packages. The indicator changes colour in presence of sufficient steam penetration. The economical design of dual strips makes them an affordable choice for assurance.



Class 6 Indicators for Routine Monitoring

PLUSAFE Class 6 Emulating Indicators for steam can be used in both 121 °C & 134 °C cycles. They are used to check sufficiency of steam penetration in sterilization processes with respect to time, temperature, and saturated steam which makes them an ideal choice for quality assurance.



VH2O2 Plasma Indicators

PLUSAFE VH2O2 Plasma Indicators for use in plasma sterilizers are used to prove the sufficient H2O2 gas penetration during the diffusion stage of process. The clear colour change is tested on various different plasma sterilizers to assure flexible use.