

temizoda  
marketi



# INDICATORS

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# Who We Are?

## Our Aim

### Who We Are?

Temizoda Marketi started its business life in 1995 with İNŞEL Yapı ve Teknik Donatım Sistemleri Ltd. Sti. Specializing in cleanroom consultancy, design, implementation, documentation, and training, İNŞEL aims to meet the needs of personnel working in cleanrooms, sterile areas and critically controlled areas when it aims to provide turnkey services in the projects it implements.

İNŞEL, which has started to supply consumables in Cleanrooms, sterile areas and critically controlled areas through its representatives since 2004, has separated this department from its body in time in order not to cause confusion for our valued customers and to provide better service led to creation of Temizoda Marketi Laboratuvar Ürünleri A.Ş.

Today, as Temizoda Marketi, we are always with you, our valued customers, from product selection to training with our professional and experienced staff, while following the technology closely to provide you with the best service in the most accurate way.

### Our Aim

As Temizoda Marketi, we know our valued customers from the very beginning, from the installation of your hygienic area and Cleanrooms, and we know your needs. We are aware of how important it is to use the right material in the right place, and we are always at your side to supply you with the best quality and right products with the most appropriate solutions. We supply the highest technology products for you, and we are with you wherever you need, from training to after-sales user Support.

We know that choosing the right product is never the cheapest or the most expensive, and at this point, we help you with the most optimum benefit options...



# Why Temizoda Marketi?

*We know you; we know your needs and we are here to help you in the best way*

As Temizoda Marketi, we try to get to know you first and learn about your business, processes, and needs and offer you the most suitable solutions.

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.



Customized Solution



Professional Staff



Correct Product



Wide Range of Products



Documentation



After Sales Support



One-Stop Service Solution



Training

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.

Choosing the right product is one of the most important issues in cleanrooms and critically controlled areas.

As Temizoda Marketi, we choose the most accurate and best quality products for your business in line with your demands and goals and recommend them by making them economical.

The materials used in critically controlled areas are as special and important as the areas you work in.

We know that the most suitable product for you is not always the most expensive or the cheapest, but it should be the best quality. In order to offer you the optimum solution, as Temizoda Marketi, we offer you the products you need by diversifying them with alternatives from different brands.

As Temizoda Marketi, we know the importance of the documentation of all materials you use in critically controlled areas, and we provide all documents, certificates, analysis reports, and all necessary documentation for you, that are necessary, during the installation phase, application and validation.

Temizoda Marketi does not only approach you as a product supplier. At the same time, it stands behind the products it sells and does not hesitate to take all necessary actions to eliminate it when you have any problems.

It does not sell products without the full support of the companies it represents. When there is a problem about the products, Temizoda Marketi approaches the issue as if using it himself and ensures that it is resolved as soon as possible. Thus, you will get maximum efficiency from the product you have bought.

As Temizoda Marketi, we would like to help you with all the products you need with our wide product range. Even if the product you need does not appear in our catalog, we try to find the product you are looking for with our partners abroad. Thus, we provide you with one-stop service as sole responsibility.

Temizoda Marketi does not only supply you with products, but also provides training, which is one of the greatest necessities of our time. No matter how accurate the product is in critically controlled areas, incorrect or unconscious use can cause unwanted problems. Upon request, it provides the necessary training for the products you have purchased, either by itself or by the manufacturer.



# Our Representatives

We are working with well-established companies that have proven their quality all over the world in auxiliary products used in clean rooms, sterile areas, laboratories and other critically controlled areas, to provide you with the best and right product.



- Cleanroom Consumables (Wipes, Gloves, Swabs, Mats,...)



**IAB Reinraum-Produkte GmbH**  
[www.iab-reinraumprodukte.de](http://www.iab-reinraumprodukte.de)



**Protect2Clean**  
[www.protect2clean.com](http://www.protect2clean.com)



**AI Glove Systems**  
[www.alglovesystems.de](http://www.alglovesystems.de)

- Cleanroom Glovebox Gloves



**Pfennig Reinigungstechnik GmbH**  
[www.pfennig-reinigungstechnik.com](http://www.pfennig-reinigungstechnik.com)

- Cleanroom Mop Systems



**ABEBA Spezialschuh-Ausstatter GmbH**  
[www.abeba.com](http://www.abeba.com)

- Cleanroom Shoes



**Bimos – Interstuhl Büromöbel GmbH**  
[www.bimos.com](http://www.bimos.com)

- Cleanroom Chairs



- Cleanroom Wipes with highest quality possible



**Berkshire Corporation**  
[www.berkshire.com](http://www.berkshire.com)

- Cleanroom consumables, disinfectants and Alcohols



**MicronClean Ltd**  
[www.micronclean.com](http://www.micronclean.com)

- Clean & Sterile Ppe For Life Science



**Isofield**  
[www.isofield.com](http://www.isofield.com)

- Cleanroom Disinfectants



**Redditch Medical**  
[www.redditchmedical.com](http://www.redditchmedical.com)



- Cleanroom Goggles



**Univet**  
[www.univetsafety.com](http://www.univetsafety.com)

- Cleanroom Filters



**Ipmfilters**  
[www.ipmfilters.com](http://www.ipmfilters.com)



- Cleanroom Sticky Mats, Papers, Shoes and Glove Liners



**Purus International Inc.**  
[www.purusint.com](http://www.purusint.com)



- Cleanest Cleanroom Gloves



**Riverstone Resources**  
[www.riverstone.com.my](http://www.riverstone.com.my)



- Cleanroom Garments



**Alsico High Tech**  
[www.alsicohightech.com](http://www.alsicohightech.com)



- Cleanroom Mats



**Noopli**  
[www.noopli.com](http://www.noopli.com)



- Cleanroom Indicators



**True Indicating Products**  
[www.trueindicating.com](http://www.trueindicating.com)

- Cleanroom Tapes, Labels



**Cleanroomtape**  
[www.cleanroomtape.com](http://www.cleanroomtape.com)



# Our Representatives

bimos

UNIVET  
OPTICAL TECHNOLOGIES

ISO field  
Protecting Life Science

alsico  
hightech

micronclean  
QUALITY TODAY - INNOVATION TOMORROW

PURUS

Berkshire  
ENGINEERED CLEAR

PROTECT  
2CLEAN

IAB  
Reinraum-Produkte GmbH

AL Glove  
Systems



PFENNIG  
REINIGUNGSTECHNIK

ABEBA®

noopli

TRUE INDICATING  
PRODUCTS

Redditch  
Medical  
Innovative thinking

UltraTape®  
Adhesive Tape & Labels for Critical Environments

NIPM



## ➤ Cleanroom Garments

- Coveralls (Reusable/Disposable & Sterile/Non-Sterile)
- Coats (Reusable/Disposable & Sterile/Non-Sterile)
- Bonnets (Reusable/Disposable & Sterile/Non-Sterile)
- Hats (Reusable)
- Hoods (Reusable/Disposable & Sterile/Non-Sterile)
- Overshoes (Reusable/Disposable & Sterile/Non-Sterile)
- Over Boots (Reusable/Disposable & Sterile/Non-Sterile)
- Socks (Reusable/Disposable & Sterile/Non-Sterile)
- Masks (Reusable/Disposable & Sterile/Non-Sterile)
- Shoes

## ➤ Cleanroom Gloves

- Sterile Gloves (Latex & Nitrile)
- Non-Sterile Gloves (Latex, Nitrile, Polyethylene, Vinyl)
- Finger Gloves (Latex & Nitrile)
- Knitted Gloves

## ➤ Cleanroom Wipes

- Sterile Wipes
- Dry Wipes
- Pre-Saturated Wipes
- Sponge Wipes

## ➤ Swabs

## ➤ Cleanroom Mats / Floorings

- Sticky Mats
- Permanent Mats

## ➤ Cleanroom Stationary

- Notebooks (Rule, Grid, A4, A5)
- Papers (A3, A4, A5)
- Pens (Sterile & Non-Sterile, IPA Resist.)
- DCR Pads
- Tapes
- Rolls

## ➤ Cleanroom Cleaning Equipment

- Mops (Single use / Re-Usable)
- Mop Systems
- Mop Heads
- Vacuum Cleaners
- Isolators

## ➤ Cleanroom Disinfection Systems

- Disinfection Systems (Wet - Dry)
- Disinfectants
- Disinfection Service
- Alcohols

## ➤ Cleanroom Goggles

## ➤ Cleanroom Filters

- HVAC Filters
- Hepa Filters
- Water System Filters (RO System)
- 100% Endotoxin Removal Filters
- Cross Flow Filters

## ➤ Cleanroom Furniture

- Work Benches
- Racks
- Chairs
- Transport Trolleys

## ➤ Cleanroom Cabinets

- LF Units
- Bio-Safety Cabinets

## ➤ Air Shower

## ➤ Isolators

## ➤ Biological Indicators





CODES CDBN-1

## Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1

### Product Description




True Indicating Dry Heat and Depyrogenation Chemical Process Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to a dry heat or depyrogenation process through color transition from Blue to Dark. The Indicators may be used to monitor dry heat processes at  $\geq 160^{\circ}\text{C}$  and Depyrogenation processes up to  $250^{\circ}\text{C}$ . The color transition which occurs after dry heat exposure is designed to occur in compliance with ISO 11140-1 and display an irreversible color transition which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers a standard configuration which may be used in either dry heat or Depyrogenation processes; see table below. In addition to the standard configuration, True Indicating will manufacture custom Indicators and labels to meet your needs.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED	EXPOSED - DEPYROGENATION
CEVG-1	5,000 Dots/Roll	12 mm (1/2")			



CODES CDBN-14

## Multicritical Process Variable Indicator

ISO 11140-1 TYPE 4

### Product Description



Type 4 Indicators are designed to react to two or more of the critical process variables. For dry heat, the critical process variables are time and temperature.

True Indicating's Product Code CDBN-14, indicates exposure to a dry heat process at the stated value (SV) of  $160^{\circ}\text{C}$  for 40 minutes.

The Indicator will transition from Blue to Dark; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Blue to Dark provides indication of exposure to a dry heat process where two or more of the critical process variables were met for sterilization.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CDBN-14	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")		



**CODES** SA-06DH

### Biological Indicators

ISO 11140-1 TYPE 5

### Product Description

True Indicating Dry Heat Biological Indicators (BIs) are:

- Compliant with ISO 11138-1 and 11138-4
- Pure high quality Bacillus atropheus, Cell Line 9372 Spores
- Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a dry heat process. The Indicators may be used to monitor processes from 160°C - 180°C for equipment and process validation or routine monitoring. The Indicators are labeled for laboratory or industrial use only.

True Indicating offers standard configurations of BIs and Inoculated Carriers; see tables below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

### Spore Strips

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
ST-06DH	10 <sup>6</sup> /strip	6 mm x 30 mm	Glassine Envelope



**CODES** AAD-06

### Dry Heat Ampule

### Product Description

True Indicating Dry Heat Biological Indicators (BIs) are:

- Compliance with ISO 11138-1 and 11138-4
- Reduced Incubation Time of 72 Hours when used in Conjunction with True Indicating's Modified Growth Medium
- Distinct color transition of media from Green to Yellow when positive for Growth

The Ampules consist of a hermetically sealed glass ampule which contains a carrier inoculated with Bacillus atropheus Cell Line 9372 Spores with a known population and resistance level. The Ampules are designed to be used in conjunction with modified media that transitions from the initial color to yellow in the presence of bacterial growth. The Ampules offer a reduced incubation period of 48 hours and provide assurance of effective sterilization after exposure to a dry heat process. The Ampules are ideal for monitoring liquid sterilization cycles but may also be utilized in dry loads up to 250°C for equipment and process validations and routine monitoring.

The Ampules are labeled for laboratory or industrial use only.

### Spore Strips

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
AAD-06	10 <sup>6</sup>	58 mm x 10.6 mm	50 Ampules/Box + 50 Tubes of Modified Media





CODES UA-06, UA-07 and UA-08

## Spore Suspensions

### Product Description

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1 and 11138-2
- Packaged in pharmaceutical vials with caps and septum which allow access via a pipette or syringe

Spore Suspensions are designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to a dry heat process is required.

Custom population levels and other diluents including Ethanol available upon request.

### SPORE SUSPENSIONS

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UA-06	10 <sup>6</sup> /0.1 mL	10 mL	24 Months
UA-07	10 <sup>7</sup> /0.1 mL		
UA-08	10 <sup>8</sup> /0.1 mL		



CODES GGM-50R / GGM-100

## Modified Growth Medium

Prepared growth medium consists of an exclusively formulated Tryptic Soybean Broth (TSB) modified with a pH indicator. The pH indicator transitions from green to yellow in the presence of *Bacillus atrophaeus* bacterial growth allowing for a reduced incubation period when used in conjunction with True Indicating BIs and Inoculated Carriers.

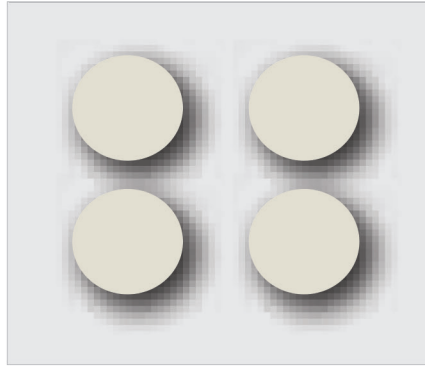
Modified growth medium offers a reduced incubation period of 48 hours for BIs and Inoculated Carriers of *Bacillus atrophaeus* when exposed to Ethylene Oxide (EO), dry heat or Vaporized Hydrogen Peroxide (VH2O2) processes.

### SPORE SUSPENSIONS

REF-PRODUCT CODE	TUBE DIMENSIONS	VOLUME	PACKAGING	SHELF LIFE
GGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Reusable Holding Rack	12 Months
GGM-100			100 Tubes	



CODES MA-06 / MAB-06



CODES DA-06 / DA3-06



CODES TA-06 / TAB-06

## Inoculated Carriers

ISO 11140-1 TYPE 4

## Product Description

True Indicating EO Biological Indicators are:

- Compliant with ISO 11138-1
- Pure high quality Bacillus atrophaeus, Cell Line 9372 Spores
- Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a dry heat process.

The Indicators may be used to monitor processes from 160°C - 180°C for equipment and process validation or routine monitoring.

The Indicators are labeled for laboratory or industrial use only.

### MINI-SPORE STRIPS

REF-PRODUCT CODE	VOLUME	DIMENSIONS	PACKAGING
MA-06	10 <sup>6</sup> /strip	2 mm x 10 mm	Glassine Envelope
MAB-06			Bulk

### SPORE DISCS

REF-PRODUCT CODE	VOLUME	DIMENSIONS	PACKAGING
DA-06	10 <sup>6</sup> /disc	6 mm	Bulk
DA3-06		3 mm	

### SPORE THREADS

REF-PRODUCT CODE	VOLUME	DIMENSIONS	PACKAGING
TA-06	10 <sup>6</sup> /thread	30 mm	Bulk
TAB-06			





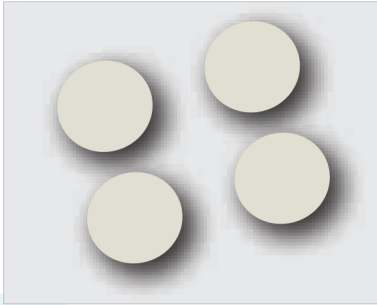
**Biological Indicators (BIs)**  
**SPORE STRIPS 24 Month Shelf Life**

SPORE STRIPS - 24 Month Shelf Life   100/pack					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	6 x 30 mm strip	ST-04	10 <sup>4</sup>	Glassine Envelopes	Steam
		ST-05	10 <sup>5</sup>		
		ST-06	10 <sup>6</sup>		
		STF-06	10 <sup>6</sup>		
Bacillus subtilis Cell Line 35021		SB5-06	10 <sup>6</sup>		Low Temperature Steam
Bacillus atrophaeus Cell Line 9372		SA-04	10 <sup>4</sup>		
		SA-05	10 <sup>5</sup>		
		SA-06	10 <sup>6</sup>		
		SA-06DH	10 <sup>6</sup>		
Bacillus pumilus Cell Line 27142		SBP-06	10 <sup>6</sup>		Dry Heat
	SBP-07	10 <sup>7</sup>			
		SBP-08	10 <sup>8</sup>		Radiation



**Biological Indicators (BIs)**  
**MINI SPORE STRIPS 24 Month Shelf Life**

MINI SPORE STRIPS - 24 Month Shelf Life   100/pack					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	2 x 10 mm strip	MT-06	10 <sup>6</sup>	Glassine Envelopes	Steam
		MTB-06		Bulk	
Bacillus atrophaeus Cell Line 9372		MA-06		Glassine Envelopes	EO/Dry Heat
		MAB-06		Bulk	



**Biological Indicators (BIs)**  
**SPORE DISCS - 24 Month Shelf Life (Paper) | 12 Month Shelf Life**

SPORE DISCS - 24 Month Shelf Life (Paper)   12 Month Shelf Life (Steel)						
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS	
Geobacillus stearothermophilus Cell Line 7953	6 mm - Paper	DT-05	10 <sup>5</sup>	Bulk	Steam	
		DT-06				
	3 mm - Paper	DT3-06	10 <sup>6</sup>	Tyvek/Mylar	VH <sub>2</sub> O <sub>2</sub>	
	6 mm - Steel	SDTM-06				
	100/pack					
	6 mm - Steel	TRI-7953	10 <sup>4</sup> 10 <sup>5</sup> 10 <sup>6</sup>	Tyvek		
	50 of each population/pack					
6 mm - Steel	SDTT-06	10 <sup>6</sup>	Tyvek			
	SDTM-06		Tyvek/Mylar			
Geobacillus stearothermophilus Cell Line 12980	6 mm - Steel	SDGT-04	10 <sup>4</sup>	Tyvek	VH <sub>2</sub> O <sub>2</sub>	
		SDGT-06	10 <sup>5</sup>			
	100/pack					
	6 mm - Steel	TRI-12980	10 <sup>4</sup> 10 <sup>5</sup> 10 <sup>6</sup>			
50 of each population/pack						
Bacillus atrophaeus Cell Line 9372	6 mm - Paper	DA-06	10 <sup>6</sup>	Bulk	EO/Dry Heat	
	3 mm - Paper	DA3-06				
	6 mm - Steel	TRI-12980		Tyvek/Mylar	VH <sub>2</sub> O <sub>2</sub>	
		SDAT-06		Tyvek		



**Biological Indicators (BIs)**  
**SPORE THREADS - 24 Month Shelf Life**

SPORE THREADS - 24 Month Shelf Life   100/pack					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	30 mm - Cotton	TTB-06	10 <sup>6</sup>	Bulk	Steam
		TT-06		Glassine	
Bacillus atrophaeus Cell Line 9372		TAB-06		Bulk	EO/Dry Heat
		TA-06		Glassine	





**Biological Indicators (BIs)**  
**SPORE WIRES - 12 Month Shelf Life**

SPORE WIRES - 12 Month Shelf Life   100/pack					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	38 mm - Steel	WTB-06	10 <sup>6</sup>	Bulk	Steam
		WT-06		Glassine	
		WTH-06		Bulk	VH <sub>2</sub> O <sub>2</sub>
Bacillus atrophaeus Cell Line 9372		WAB-06		Bulk	EO/Dry Heat
		WA-06		Glassine	



**Biological Indicators (BIs)**  
**SPORE AMPULES - 24 Month Shelf Life**

SPORE AMPULES - 24 Month Shelf Life					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	1 mL	AT-04	10 <sup>4</sup>	50 Ampules	Steam
		AT-05	10 <sup>5</sup>		
		AT-06	10 <sup>6</sup>		
	4 mL	ATL-05	10 <sup>5</sup>		
		ATL-06	10 <sup>6</sup>		
	1 mL	AT-0510	10 <sup>5</sup>		
AT-0610		10 <sup>6</sup>	Negative Controls		
0,7 mL	ATM-06	10 <sup>6</sup>	50 + 5	Low Temperature Steam	
	AB5-06		Negative Controls		
Bacillus atrophaeus Cell Line 9372		AB5-06		50 + 10	
Negative Controls	1 mL	AT10-NC	---	10 Negative Controls	



**Biological Indicators (BIs)**  
**DRY HEAT AMPULES - 24 Month Shelf Life**

DRY HEAT AMPULES - 24 Month Shelf Life					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Bacillus atrophaeus Cell Line 9372	47 mm x 10.6 mm	AAD-06	10 <sup>6</sup>	50 Ampules + 50 Tubes of Medium	Dry Heat/ Depyrogenation



**Biological Indicators (BIs)**  
**TUBED GROWTH MEDIUM - 12 Month Shelf Life**

TUBED GROWTH MEDIUM - 12 Month Shelf Life				
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	4.5 mL/Tube	PGM-100	100 Tubes/Box	Steam, VH <sub>2</sub> O <sub>2</sub> / Plasma
Bacillus atrophaeus Cell Line 9372		GGM-100		EO, Dry Heat, VH <sub>2</sub> O <sub>2</sub> /Plasma





**Self-Contained  
Biological Indicator**

ORDER INFORMATION					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	8.3 x 46 mm	MSCST-05	10 <sup>5</sup>	100/Box	Steam
		MSCST-06	10 <sup>6</sup>		VH <sub>2</sub> O <sub>2</sub> / Plasma
		MSCPT-06			
	9.5 x 48 mm	SCST-05	10 <sup>6</sup>	50/Box	Steam
		SCST-06			
Bacillus atrophaeus Cell Line 9372	8.3 x 46 mm	MSCEA-06	10 <sup>5</sup>	100/Box	EO
	9.5 x 48 mm	SCEA-06			



**Spore Suspensions  
24 Month Shelf Life**

### ORDER INFORMATION

	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS	
Geobacillus stearothermophilus Cell Line 7953	10 mL	UT-04	10 <sup>4</sup>	Vial	Steam	
		UT-05	10 <sup>5</sup>			
		UT-06	10 <sup>6</sup>			
		UT-07	10 <sup>7</sup>			
		UT-08	10 <sup>8</sup>			
Bacillus subtilis Cell Line 35021		UB5-06	10 <sup>6</sup>		Low Temperature Steam	
		UB5-07	10 <sup>7</sup>			
		UB5-08	10 <sup>8</sup>			
Bacillus atrophaeus Cell Line 9372		UA-06	10 <sup>6</sup>		EO/Dry Heat	
		UA-07	10 <sup>7</sup>			
		UA-08	10 <sup>8</sup>			
Bacillus pumilus Cell Line 27142		UBP-06	10 <sup>6</sup>		Radiation	
		UBP-07	10 <sup>7</sup>			
			UBP-08		10 <sup>8</sup>	

### QUALITY CONTROL – Growth Promotion Suspensions

	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PROCESS
Geobacillus stearothermophilus Cell Line 7953	10 mL	UT-01	<100 CFU's/0.1mL	Vial
Bacillus atrophaeus Cell Line 9372		UA-01		
		UB6-01		
Bacillus subtilis Cell Line 6633		UB6-06	10 <sup>6</sup>	
		UB6-07	10 <sup>7</sup>	
		UB6-08	10 <sup>8</sup>	



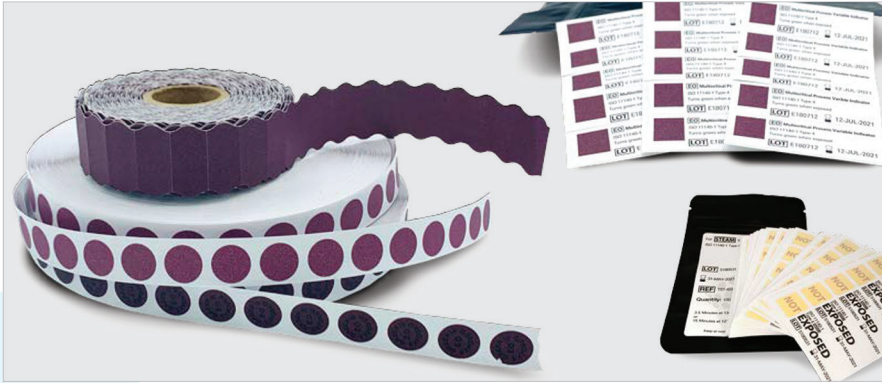


**Chemical Indicators  
PLAIN DOTS - TYPE 1**

PLAIN DOTS - TYPE 1				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSBP-1	Blue to Pink	12.7 mm 5,000 / Roll	3 Years
	CSPN-1	Pink to Dark		
Dry Heat	CDBN-1	Blue to Dark Green		
Depyrogenation		Blue to Dark Gray		
EO	CEVG-1	Violet to Green		
Radiation	CRYR-1	Yellow to Red		

METO LABELS - TYPE 1				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
EO	CEVG-2	Violet to Green	25 mm 1,500 / Roll	3 Years
Radiation	CRYR-2	Yellow to Red	25 mm 1,000 / Roll	
	CRYR-4			

IMPRINTED - TYPE 1				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CEVG-3	Violet to Green	12.7 mm Dot 5,000 / Roll	3 Years
VH <sub>2</sub> O <sub>2</sub> /Plasma	CPYB-1	Yellow to Blue		
Radiation	CRYR-3	Yellow to Red	14 mm Square 5,000 / Roll	
	CRYR-5			



**Chemical Indicators  
CI STRIPST**

CI STRIPS - TYPE 1				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
VH <sub>2</sub> O <sub>2</sub> /Plasma	CPVG-11	Brown to Green	19 x 64 mm 250 Strips-Labels/ Pack	3 Years

CI STRIPS - TYPE 4				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSYN-14	Yellow to Dark	19 x 64 mm 250 Strips-Labels / Pack	3 Years
Dry Heat	CDBN-14	Blue to Dark Green		
Ethylene Oxide (EO)	CEVG-14	Violet to Green		



**Integrators, Emulators and Bowie Dick  
INTEGRATOR STRIPS  
EMULATOR STRIPS**

INTEGRATOR STRIPS - TYPE 5				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSPN-15	Pink to Dark	19 x 64 mm 250 Strips-Labels / Pack	3 Years

EMULATOR STRIPS - TYPE 6				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSBN-16	Blue to Dark	19 x 64 mm 250 Strips-Labels / Pack	3 Years





**Chemical Indicators**  
**BOWIE DICK TEST PACKS**  
**AUTOCLAVE TAPE**

### BOWIE DICK TEST PACKS

	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	BD-1X	Blue to Pink	12x12x1.6 cm 20 / Case	5 Years

### AUTOCLAVE TAPE

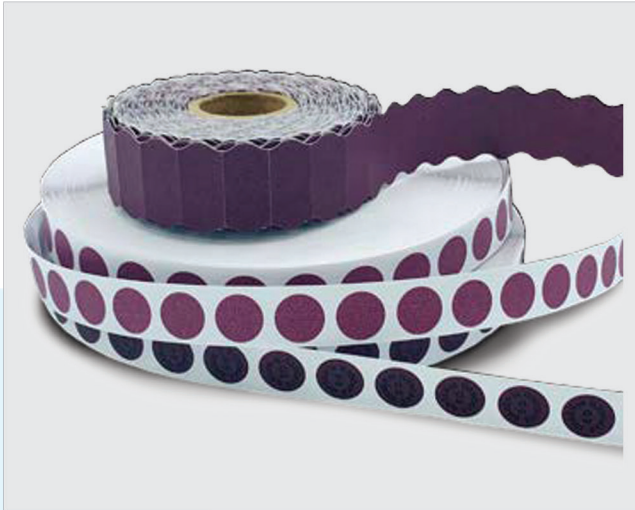
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSWN-1T	Light to Dark	18mm x 50 m 12 Rolls / Case	2 Years
Ethylene Oxide (EO) or VH <sub>2</sub> O <sub>2</sub> /Plasma	CEVG-1T	Violet to Green	19 mm x 55 m 12 Rolls / Case	3 Years
VH <sub>2</sub> O <sub>2</sub> /Plasma	CPRY-1T	Red to Yellow		



**Chemical Indicators**  
**DRY BLOCK INCUBATORS**

### ORDER INFORMATION

REF-PRODUCT CODE	PLUG TYPE
INC-AM	American, 110V
INC-EU	European 220V
INC-UK	United Kingdom, 220V



CODES CEVG-1 / CEVG-2 / CEVG-3

## Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1

### Product Description

True Indicating EO Chemical










Process Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to an EO process through color transition from Purple to Green. The Indicators may be used to monitor EO exposures using 100% EO or gas mixtures. The color transition is designed to occur in compliance with ISO 11140-1 and display an irreversible change which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers three (3) standard configurations; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators and Labels to meet your needs.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CEVG-1 	5,000 Dots/Roll	12.7 mm (1/2")		
CEVG-2 	1,500 / Roll	Meto Label 25 x 12 mm (1 x 0.5")		
CEVG-3 	5,000 Dots/Roll Each Imprinted with Green is Exposed	12.7 mm (1/2")		



CODES CEVG-14

## Multicritical Process Variable Indicator

ISO 11140-1 TYPE 4

Type 4 Indicators are designed to react to two or more of the critical process variables. For EO, the critical process variables are time or length of exposure, temperature, relative humidity (RH) and EO concentration. True Indicating's Product Code CEVG-14, indicates exposure to an EO process at the stated value (SV) of 600mg/L at 54°C and 60% RH for 20 minutes.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the strip to packages during exposure and /or for record keeping purposes after exposure.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CEVG-14	250 Strip/Pack	19 mm x 70 mm (0.75" x 2.75")		





### Integrating Indicator

ISO 11140-1 TYPE 5



#### Product Description

Type 5 Indicators are designed to react to all critical process variables including time, temperature, RH and EO Concentration. True Indicating's Product Code CEVG-15 indicates exposure to an EO Process at the SV of 600 mg/L at 54°C and 60% RH for 40 minutes.

The backing of the strips is removable which exposes latex-free adhesive for easy application of the strip to packages during exposure or for record keeping purposes after exposure.

CODES CEVG-15

#### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CEVG-15	250 Strip/Pack	19 mm x 70 mm (0.75" x 2.75")		




### Indicator Tape

#### Product Description

The Tape is used for closing packages, instrument wraps, and other items requiring EO sterilization. The EO tape can be utilized for identifying processed and non-processed items. The tape can adhere to paper, plastic, glass, metal, and non-woven materials.

CODES EO-TAPE

#### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
EO-TAPE	12 Rolls/Cs	19 mm x 50 mm (0.75" x 55 yards)		



CODES SA-04 / SA-05 / SA-06



CODES MA-06 / MAB-06



CODES DA-06 / DA3-06



CODES TA-06 / TAB-06



CODES WA-06 / WAB-06

## Biological Indicator and Inoculated Carriers

### Product Description

True Indicating EO Biological Indicators are:

- Compliant with ISO 11138-1 and 11138-2
- Pure high quality Bacillus atrophaeus spores, Cell Line 9372 in Water For Injection (WFI) only
- Consistent in quality Indicator to Indicator for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to an EO process. The Indicators may be used to monitor processes with 100% or EO gas mixtures for equipment and process validation or routine monitoring. The Indicators are labeled for laboratory/industrial use only.

True Indicating offers standard configurations of Biological Indicator and Inoculated Carriers; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

### SPORE STRIPS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
SA-04	10 <sup>4</sup> /strip	6 mm x 30 mm	Glassine Envelope
SA-05	10 <sup>5</sup> /strip		
SA-06	10 <sup>6</sup> /strip		

### MINI-SPORE STRIPS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MA-06	10 <sup>6</sup> /strip	2 mm x 10 mm	Glassine Envelope
MAB-06			Bulk

### SPORE DISCS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
DA-06	10 <sup>6</sup> /disc	6 mm	Bulk
DA3-06		3 mm	

### SPORE THREADS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
TA-06	10 <sup>6</sup> /thread	30 mm	Glassine Envelope
TAB-06			Bulk

### SPORE WIRES

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
WA-06	10 <sup>6</sup> /wire	38 x 1.5 mm	Glassine Envelope
WAB-06			Bulk



## Self-Contained Biological Indicator

### Product Description

True Indicating EO SCBIs offer:

- Compliance with ISO 11138-1 and 11138-2
- Reduced Incubation Time of 48 Hours
- Distinct color transition of media from Green to Yellow when Positive for Growth

The Indicators are designed to provide assurance of effective sterilization after exposure to an EO process. The Indicators may be used to monitor processes with 100% or EO gas mixtures for equipment and process validation or routine monitoring. The self-sealing design of the Rigid SCBIs, SCEA-06, offer a better option for extended incubation up to 7 days without concern of evaporation or color reversion of positive units. The Indicators are labeled for laboratory/industrial use only.

CODES MSCEA-06 / SCEA-06

SCBIs			
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MSCEA-06	10 <sup>6</sup> /SCBI	8.3 mm x 46 mm	100/Box
SCEA-06		9.5 mm x 48 mm	50/Box



## Spore Suspensions

### Product Description

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1, 11138-2 and USP
- Packaged in pharmaceutical vials with caps and septum allow access via a pipette or syringe
- Pure suspensions of Bacillus atrophaeus, Cell Line 9372 suspended in Water For Injection (WFI)

The Spore Suspensions are designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to an EO process is required.

Custom population levels and other diluents including Ethanol available upon request.

CODES UA-06 / UA-07 / UA-08

SPORE SUSPENSIONS			
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UA-06	10 <sup>6</sup> /0.1 mL	10 mL	36 Months
UA-07	10 <sup>7</sup> /0.1 mL		
UA-08	10 <sup>8</sup> /0.1 mL		





### Dry Block Incubators

- Ambient to 70°C temperature range (+/-0.5°C)
- Removable, clear polycarbonate lid allows for full viewing of all units at a glance
- Ten (10) wells each 13 mm accommodate Spore Ampules, Traditional Mini and Rigid SCBIs

### ORDER INFORMATION

REF-PRODUCT CODE	PLUG TYPE
INC-AM	American, 110V
INC-EU	European 220V
INC-UK	United Kingdom, 220V



## Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1 (Gamma or E-beam)

### Product Description


























True Indicating Radiation Chemical Process Indicator labels are manufactured with:

- Indicating Ink which contains no lead or other toxic heavy metals
- A high quality film which prevents Indicators from being torn or damaged during transport and exposure
- Latex-free pressure sensitive adhesive
- An overlaminant which provides protection from UV light aiding to minimize color transition while in storage prior to exposure

The Indicators are designed to provide confirmation of exposure to a radiation process through color transition from Yellow to Red. The Indicators may be used to monitor radiation dose levels of 10 kGy and greater. The higher the dose level the darker the Red transition color will become.

True Indicating offers five (5) standard configurations; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators and Labels to meet your needs.

CODES CRYR-1 / CRYR-2 / CRYR-3 / CRYR-4 / CRYR-5

ORDER INFORMATION						
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	1 kGY	10 kGY	25 kGY
CRYR-1 	5,000 Dots/Roll	12.7 mm (1/2")				
CRYR-2 	1,000 / Roll	Meto Label 25 x 12 mm (1 x 0.5")				
CRYR-3 	5,000 Dots/ Roll Each Imprinted with Red is	12.7 mm (1/2")				
CRYR-4 	1,000 / Roll	12.7 mm (1/2")				
CRYR-5 	5,000 Dots/Roll	14 x 14 mm				



### Biological Indicators (BIs)

ISO 11138-1 and USP Compliant (Gamma or E-beam)

#### Product Description

True Indicating EO Chemical

Indicating Radiation Biological Indicator are manufactured with:

- Pure high quality Bacillus pumilus spores, Cell Line 27142, within 5 passages of an original stock culture suspended only in Water For Injection (WFI)
- Spore strips are 6 x 30 mm packaged in glassine envelopes
- Spore Suspensions are packaged in pharmaceutical grade glass vials with screw cap and septum to allow for access with a pipette or syringe

The Indicators are designed to provide assurance of effective sterilization after exposure to a radiation process. The Indicators may be used to monitor radiation dose levels of 10 kGy and greater.

True Indicating offers standard configurations of Spore Strips and Spore Suspensions; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

**CODES** SPORE STRIPS: SBP-06 / SBP-07 / SBP-08

**CODES** SPORE SUSPENSIONS: UBP-06 / UBP-07 / UBP-08

#### SPORE STRIPS

REF-PRODUCT CODE	POPULATION	D VALUE	GLASSINE DIMENSION	SHELF LIFE
SBP-06	10 <sup>6</sup> /strip	0.1 to 0.2 Mrad Or 1.0 to 2.0 kGy	30 x 38 mm	24 Months
SBP-07	10 <sup>7</sup> /strip			
SBP-08	10 <sup>8</sup> /strip			

#### SPORE SUSPENSION

REF-PRODUCT CODE	POPULATION	D VALUE	VOLUME	SHELF LIFE
UBP-06	10 <sup>6</sup> /0.1ml	0.1 to 0.2 Mrad Or 1.0 to 2.0 kGy	10 mL	24 Months
UBP-07	10 <sup>7</sup> /0.1ml			
UBP-08	10 <sup>8</sup> /0.1ml			





CODES CSBP-1/ CSPN-1

## Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1

### Product Description

True Indicating Steam Chemical







Process Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to a steam process through color transition from Blue to Pink for the CSBP-1 or Pink to Dark for the CSPN-1. The Indicators may be used to monitor steam processes at 121°C to 137°C. The color transition is designed to occur in compliance with ISO 11140-1 and display an irreversible color transition which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers two (2) standard configurations; see table below. In addition to the standard configurations, True Indicating will manufacture custom Indicators and labels to meet your needs.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CSBP-1 	5,000 Dots/Roll	12.7 mm (1/2")		
CSPN-1 	5,000 Dots/Roll	12.7 mm (1/2")		



CODES CSYN-14

## Multicritical Process Variable Indicator

ISO 11140-1 Type 4

Type 4 Indicators are designed to react to two or more of the critical process variables. For EO, the critical process variable are time or length of exposure, temperature, relative humidity (RH) and EO concentration. True Indicating's Product Code CEVG-14, indicates exposure to an EO process at the stated value (SV) of 600mg/L at 54°C and 60% RH for 20 minutes.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the strip to packages during exposure and /or for record keeping purposes after exposure.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	INEFFECTIVE CONDITIONS	EXPOSED
CSYN-14	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")			



CODES CSPN-15

## Integrating Indicator

ISO 11140-1 Type 5

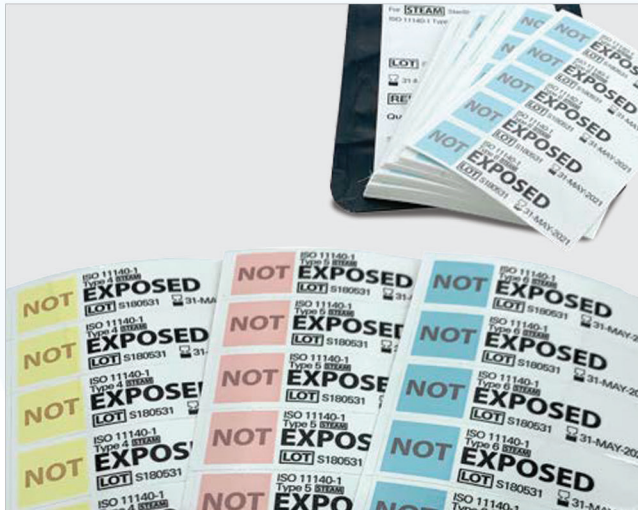
Type 5 Indicators are designed to react to all critical process variables including time, temperature and moisture. True Indicating's Product Code CSYN-15 indicates exposure to a steam process at the Stated Value (SV) of 121°C for 16.5 minutes or 135°C for 1.2 minutes.

The Indicator will transition from Pink to Dark; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Pink to Dark and the word "NOT" being completely concealed provides indication of effective steam sterilization conditions.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	INEFFECTIVE CONDITIONS	EXPOSED
CSPN-15	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")	NOT		



CODES CSBN-16

## Emulating Indicators

ISO 11140-1 Type 6

Type 6 Indicators are designed to react to all critical process variables including time, temperature and moisture. True Indicating's Product Code CSBN-16 indicates exposure to a steam process at the Stated Value (SV) of 121°C for 10 minutes or 134°C for 3.5 minutes.

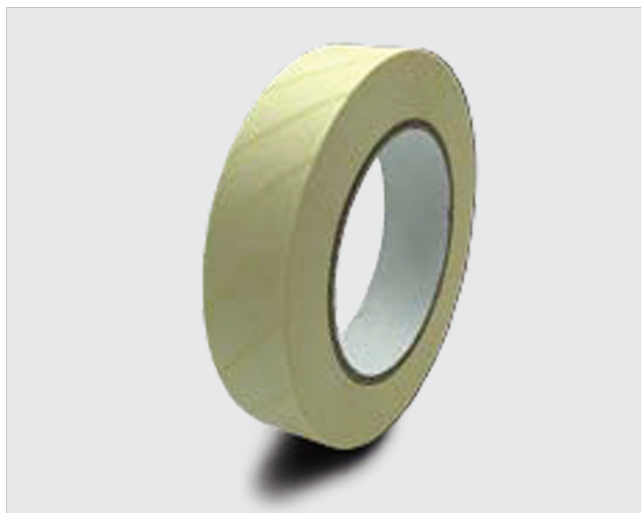
The Indicator will transition from Blue to Dark; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Blue to Dark and the word "NOT" being completely concealed provides indication of effective steam sterilization conditions.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	INEFFECTIVE CONDITIONS	EXPOSED
CSBN-16	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")	NOT		





## Autoclave Indicator Tape

### Product Description

The tape is used for closing packages, instrument wraps and other items requiring steam sterilization. The autoclave tape can be utilized for identifying processed from unprocessed items. The can adhere to paper, plastic, glass, metal and non-woven materials.

CODES CSWN-IT

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CSWN-IT	12 Rolls/Cs	19 mm x 55 m (0.75' x 60 yards)		



## BOWIE DICK TEST PACKS AND TEST SHEETS

ISO 11140-4 Type 2 (BD-1x) and 11140-3 Type 2 (A4TS)

### Product Description

Bowie and Dick Test Packs and Test Sheets detect the presence of residual air in prevacuum steam sterilizers-autoclaves operating at 121° - 134°C. The internal Indicator sheet will demonstrate a uniform color change from Blue to Pink for Product Code BD-1X or Blue to Dark for Product Code A4TS when proper conditions for sub-atmospheric pulsing have been met. A Test Sheet yielding inconsistent color transition is indicative of one or more of the following being insufficient: exposure temperature, exposure time, vacuum depth, number of vacuum pulses, steam penetration, or air removal.

CODES BD-1X / A4TS

A Bowie Dick test should be performed at least once daily on the bottom shelf, over the drain closest to the door in an otherwise empty chamber. Product Code BD-1X is designed to be placed directly into the sterilizer-autoclave as the Test Sheet is contained within the Test Pack. Product Code A4TS is designed to be placed into a towel pack in accordance with ISO 11140-3.

Per ISO 11140-3 and 11140-4, exposures shall be performed at 121°C for 15 minutes or 134°C for 3.5 minutes. Please consult with Customer Service regarding evaluation at times or temperatures outside those recommended.

### ORDER INFORMATION

REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
BD-1X	20 Test Packs/ Box	123 mm x 123 mm x 16 mm		
A4TS	50 Test Sheets/ Box	210 mm x 297 mm		

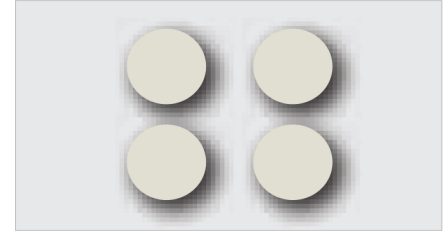




CODES / ST-04 / ST-05 / ST-06



CODES / MT-06 / MTB\_06



CODES / DT-06 / DT3-06



CODES / TT-06 / TTB-06



CODES / WT-06 / WTB-06

## Biological Indicators and Inoculated Carriers

### Product Description

True Indicating Steam Biological Indicators (BIs) and Inoculated Carriers are:

- Compliant with ISO 11138-1 and 11138-3
- Pure high quality *Geobacillus stearothermophilus*, Cell Line 7953 Spores or *Bacillus subtilis* Cell Line 35021(5230) Spores for Low-Temperature Processes
- Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a steam process. The Indicators may be used to monitor processes from 110°C - 137°C for equipment and process validation or routine monitoring. Use of *Bacillus subtilis* Spore Strips is recommended for low temperature steam sterilization processes at 110°- 118°C. The Indicators are labeled for laboratory or industrial use only.

### SPORE STRIPS - *Bacillus subtilis*

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
SB5-06	10 <sup>6</sup>	6 mm x 30 mm	Glassine Envelope

### SPORE STRIPS - *Geobacillus stearothermophilus*

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
ST-04	10 <sup>4</sup>	6 mm x 30 mm	Glassine Envelope
ST-05	10 <sup>5</sup>		
ST-06	10 <sup>6</sup>		

### MINI-SPORE STRIPS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MT-06	10 <sup>6</sup>	2 mm x 10 mm	Glassine Envelope
MTB-06			Bulk

### SPORE DISCS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
DT-06	10 <sup>6</sup>	6 mm	Bulk
DT3-06		3 mm	

### SPORE THREADS

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
TT-06	10 <sup>6</sup>	30 mm	Glassine Envelope
TTB-06			Bulk

### SPORE WIRES

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
WT-06	10 <sup>6</sup>	38 mm	Glassine Envelope
WTB-06			Bulk



### Self-Contained Biological Indicator

#### Product Description

True Indicating Steam SCBIs offer:

- Compliance with ISO 11138-1 and 11138-3
- Reduced Incubation Time of 24 Hours
- Distinct color transition of media from Purple to Yellow when positive for Growth

The SCBIs are designed to provide assurance of effective sterilization after exposure to a steam process. The SCBIs may be used to monitor processes up to 140°C for equipment and process validations and routine monitoring. The self-sealing rigid SCBIs, SCST-05 and SCST-06, offer a better option for extended incubation up to 7 days with less concern of evaporation or color reversion of positive units.

The SCBIs are labeled for laboratory or industrial use only.

#### CODES

MSCST-05 / MSCST-06 / SCST-05 / SCST-06

#### SCBIs

REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MSCST-05	10 <sup>5</sup>	8.3 mm x 46 mm	100/Box
MSCST-06	10 <sup>6</sup>		
SCST-05	10 <sup>5</sup>	9.5 mm x 48 mm	50/Box
SCST-06	10 <sup>6</sup>		



## Spore Ampules

### Product Description

Spore Ampules are SCBIs consisting of a hermetically sealed glass ampule which contains modified Tryptic Soy Broth (TSB) with a pH indicator and Geobacillus stearothermophilus Cell Line 7953 or Bacillus subtilis Cell Line 35021 (5230) Spores with a known population and resistance level. The modified TSB will transition from the initial color to yellow and or demonstrate turbidity in the presence of bacterial growth. The Spore Ampules Geobacillus stearothermophilus offer a reduced incubation period of 48 hours and 72 hours for Bacillus subtilis.

Spore Ampules are ideal for monitoring liquid steam sterilization cycles but may also be utilized in dry loads. Geobacillus stearothermophilus Spore Ampules may be utilized to monitor steam processes at 121°C to 137°C, whereas Bacillus subtilis Spore Ampules are recommended for monitoring low-temperature steam processes in the range of 110°C to 118°C.

Spore Ampules are labeled for laboratory or industrial use only.

CODES AT-04 / AT-05 / AT-06 / AT-0610 / ATM-06 / AB5-06

### Geobacillus stearothermophilus CELL LINE 7953

REF-PRODUCT CODE	POPULATION	AMPULE VOLUME	DIMENSIONS	PACKAGING
AT-04	10 <sup>4</sup>	1 mL	47 mm x 10.6 mm	50/Box
AT-05	10 <sup>5</sup>			
AT-06	10 <sup>6</sup>			
AT-0610		50/Box + 10 Negative Control Ampules		
ATM-06		0.7 mL	40 mm x 6.5 mm	50/Box + 5 Negative Control Ampules
AT-NC-10	NA-Negative Control	1 mL	47mm x 10.6mm	10/Box

### Bacillus subtilis CELL LINE 35021

REF-PRODUCT CODE	POPULATION	AMPULE VOLUME	DIMENSIONS	PACKAGING
AB5-06	10 <sup>6</sup>	1 mL	40 mm x 6.5 mm	100/Box + 10 Negative Control





## Spore Suspensions

### Product Description

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1 and 11138-3 (where applicable)
- Packaged in pharmaceutical vials with caps and septum which allow access via a pipette or syringe

Spore Suspensions are pure suspensions of spores and Water For Injection (WFI) designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to a steam process is required.

Custom population levels and other diluents including Ethanol available upon request.

### CODES

UT-04 / UT-05 / UT-06 / UT-07 / UT-08 / UB5-06 / UB5-07 / UB5-08 / UB6-06 / UB6-07 / UB6-08

### Geobacillus stearothermophilus CELL LINE 7953

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UT-04	10 <sup>4</sup> /0.1 mL	10 mL	24 Months
UT-05	10 <sup>5</sup> /0.1 mL		
UT-06	10 <sup>6</sup> /0.1 mL		
UT-07	10 <sup>7</sup> /0.1 mL		
UT-08	10 <sup>8</sup> /0.1 mL		

### Bacillus subtilis CELL LINE 35021 (5230)

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UB5-06	10 <sup>6</sup> /0.1 mL	10 mL	24 Months
UB5-07	10 <sup>7</sup> /0.1 mL		
UB5-08	10 <sup>8</sup> /0.1 mL		

### Bacillus subtilis CELL LINE 6633

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UB6-06	10 <sup>6</sup> /0.1 mL	10 mL	24 Months
UB6-07	10 <sup>7</sup> /0.1 mL		
UB6-08	10 <sup>8</sup> /0.1 mL		



## Modified Growth Medium

### Product Description

Prepared growth medium consists of an exclusively formulated Tryptic Soybean Broth (TSB) modified with a pH indicator. The pH indicator transitions from Purple to Yellow in the presence of *Geobacillus stearothermophilus* bacterial growth allowing for a reduced incubation period when used in conjunction with True Indicating BIs and Inoculated Carriers.

Modified growth medium offers a reduced incubation period of 24 hours for BIs and Inoculated Carriers of *Geobacillus stearothermophilus* when exposed to Steam or Vaporized Hydrogen Peroxide ( $VH_2O_2$ ) processes.

CODES PGM-50R / PGM-100

### Bacillus subtilis CELL LINE 35021

REF-PRODUCT CODE	TUBE DIMENSIONS	VOLUME	PACKAGING	SHELF LIFE
PGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Reusable Holding Rack	12 Months
PGM-100			100 Tubes	



## Dry Block Incubators

- Ambient to 70°C temperature range (+/-0.5°C)
- Removable, clear polycarbonate lid allows for full viewing of all units at a glance
- Ten (10) wells each 13 mm accommodate Spore Ampules, Traditional Mini and Rigid SCBIs

### ORDER INFORMATION

REF-PRODUCT CODE	PLUG TYPE
INC-AM	American, 110V
INC-EU	European 220V
INC-UK	United Kingdom, 220V



CODES CPYB-1 / CPVG-11

**Chemical Process Indicators (CPIs)**

ISO 11140-1 Type 1

**Product Description**

True Indicating VH2O2/Plasma Chemical

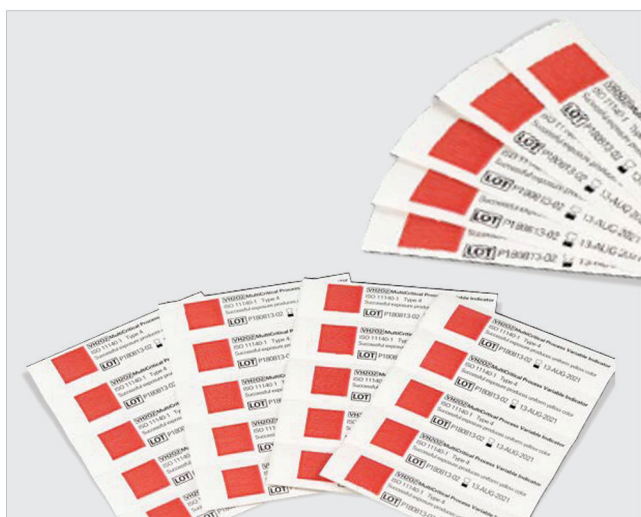
Process Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to a VH2O2/Plasma process through color transition; Product Code CPYB-1 transitions from Yellow to Blue and Product Code CPVG-11 from Brown to Green. The Indicators may be used to monitor VH2O2/Plasma sterilization processes at ≥50°C and 2.3 mg/L of VH2O2/Plasma. The color transition which occurs after VH2O2/Plasma exposure is designed to occur in compliance with ISO 11140-1 and display an irreversible color transition which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers standard configurations which may be used in VH2O2/Plasma processes; see table below. In addition to the standard configuration, True Indicating will manufacture custom Indicators and labels to meet your needs.

ORDER INFORMATION				
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CPYB-1	5,000 Dots/Roll	12.7 mm (1/2")		
CPVG-11	250 Strips/pack	19 mm x 64 mm (0.75" x 2.5")		



CODES CPRY-14

**Multicritical Process Variable Indicator**

ISO 11140-1 TYPE 4

**Product Description**

Type 4 Indicators are designed to react to two or more of the critical process variables. For VH2O2/Plasma, the critical process variables are time, temperature and hydrogen peroxide concentration. True Indicating's Product Code CPRY-14, indicates exposure to a VH2O2/Plasma process at the stated value (SV) of 2.3 mg/L, 50°C for 6 minutes with complete color change at 30 minutes ± 5 minutes.

The Indicator will transition from Red to Yellow; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Red to Yellow provides indication of exposure to a VH2O2/Plasma process where two or more of the critical process variables were met for sterilization.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

ORDER INFORMATION				
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CPRY-14	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")		





**Indicator Tape**



**Product Description**

True Indicating VH202/Plasma Chemical Process Indicator Tape is manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- Latex-free pressure sensitive adhesive

The Indicator Tape is used for closing packages, instrument wraps and other items requiring VH202/Plasma sterilization. The Indicator tape can be utilized for identifying processed from unprocessed items. The tape can adhere to plastic, glass, metal and non-woven materials.

CODES CPROY-1T

ORDER INFORMATION				
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CPROY-1T	12 Rolls/Cs	19 mm x 55 m (0.75" x 60 yards)		



**Self-Contained Biological Indicator**

**Product Description**

True Indicating Steam VH<sub>2</sub>O<sub>2</sub>/Plasma offer:

- Compliance with ISO 11138-1
- Reduced Incubation Time of 24 Hours

The SCBIs are designed to provide assurance of effective sterilization after exposure to a VH202/Plasma process. The SCBIs are labeled for laboratory or industrial use only.

CODES MSCPT-06

SCBIs			
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MSCPT-06	10 <sup>6</sup>	8.3 mm x 46 mm	100/Box



### Biological Indicator and Inoculated Carriers

#### Product Description

True Indicating VH202/Plasma Biological Indicators (BIs) and Inoculated Carriers are:

- Compliant with ISO 11138-1
- Pure high quality Geobacillus stearothermophilus, Cell Line 7953 or 12980 and Bacillus atrophaeus Cell Line 9372 Spores
- Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a VH202/Plasma process. The Indicators may be used to monitor sterilization processes for equipment and process validation or routine monitoring and when removed from the primary packaging used to monitor disinfection processes. The Indicators are labeled for laboratory or industrial use only.

True Indicating offers standard configurations of BIs and Inoculated Carriers; see tables below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

CODES

WTH-06 / SDTM-06 / SDTT-06 / TRI-7953 / SDGM-06  
SDGT-04 / SDGT-06 / TRI-12980 / SDAM-06 / SDAT-06

#### Geobacillus stearothermophilus CELL LINE 7953 | 12 Month Shelf Life

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
WTH-06	10 <sup>6</sup>	38 mm Steel Wire	Bulk
SDTM-06		6 mm Steel Disc	Tyvek/Mylar Pouch
SDTT-06			Tyvek Pouch
TRI-7953	10 <sup>4</sup> /10 <sup>5</sup> /10 <sup>6</sup>		

#### Geobacillus stearothermophilus CELL LINE 12980 | 12 Month Shelf Life

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
SDGM-06	10 <sup>6</sup>	6 mm Steel Disc	Tyvek/Mylar Pouch
SDGT-04	10 <sup>4</sup>		Tyvek Pouch
SDGT-06	10 <sup>6</sup>		
TRI-12980	10 <sup>4</sup> /10 <sup>5</sup> /10 <sup>6</sup>		

#### Bacillus atrophaeus CELL LINE 9372 | 12 Month Shelf Life

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
SDAM-06	10 <sup>6</sup>	6 mm Steel Disc	Tyvek/Mylar Pouch
SDAT-06			Tyvek Pouch



**Spore Suspensions**

**Product Description**

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1
- Packaged in pharmaceutical vials with caps and septum which allow access via a pipette or syringe

Spore Suspensions are designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to a VH<sub>2</sub>O<sub>2</sub>/Plasma process is required.

Custom population levels and other diluents including Ethanol available upon request.

CODES UTH-06 / UTH-07 / UTH-08 / UG-06 / UG-07 / UG-08

**Geobacillus stearothermophilus CELL LINE 7953**

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UTH-06	10 <sup>6</sup> /0.1 mL	10 mL	24 Months
UTH-07	10 <sup>7</sup> /0.1 mL		
UTH-08	10 <sup>8</sup> /0.1 mL		

**Geobacillus stearothermophilus CELL LINE 12980**

REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
UG-06	10 <sup>6</sup> /0.1 mL	10 mL	24 Months
UG-07	10 <sup>7</sup> /0.1 mL		
UG-08	10 <sup>8</sup> /0.1 mL		



**Modified Growth Medium**

**Product Description**

TPrepared growth medium consists of an exclusively formulated Tryptic Soybean Broth (TSB) modified with a pH indicator.

The pH indicator transitions to yellow in the presence of bacterial growth allowing for a reduced incubation period when used in conjunction with True Indicating BIs and Inoculated Carriers.

Modified growth medium offers a reduced incubation period of 24 hours for Geobacillus stearothermophilus or for a minimum of 48 hours with Bacillus atrophaeus when exposed to Steam, Ethylene Oxide (EO), dry heat or Vaporized Hydrogen Peroxide (VH<sub>2</sub>O<sub>2</sub>) processes.

CODES PGM-50R / PGM-100 / GGM-50R / GGM-100

**ORDER INFORMATION**

REF-PRODUCT CODE	POPULATION	VOLUME	PACKAGING	SHELF LIFE
PGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Re-usable Holding Rack	12 Months
PGM-100			100 Tubes	

**ORDER INFORMATION**

REF-PRODUCT CODE	POPULATION	VOLUME	PACKAGING	SHELF LIFE
GGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Re-usable Holding Rack	12 Months
GGM-100			100 Tubes	



Cleanroom Classification according to EN ISO 14644-1 - particles per m<sup>3</sup> (maximum limit)

CLASS	≥ 0.1 µm	≥ 0.2 µm	≥ 0.3 µm	≥ 0.5 µm	≥ 1.0 µm	≥ 5.0 µm
ISO 1	10					
ISO 2	100	24	10			
ISO 3	1000	37	102	35		
ISO 4	10000	2370	1020	352	83	
ISO 5	100000	23700	10200	3520	832	
ISO 6	1000000	237000	102000	35200	8320	293
ISO 7				352000	83200	2930
ISO 8				3520000	832000	29300
ISO 9				35200000	8320000	293000

GMP Classification - particles per m<sup>3</sup> (maximum limit)

CLASS	At Rest		In operation	
	≥ 0.5 µm	≥ 0.5 µm	≥ 0.5 µm	≥ 0.5 µm
A	3520	20	3520	20
B	3520	29	35200	2900
C	352000	2900	3520000	29000
D	3520000	29000	Not defined	

ISO - ACC -classes according to EN ISO 14644-8

ISO-ACC - Class	Concentration		
	g/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>
0	10 <sup>0</sup>	10 <sup>6</sup>	10 <sup>9</sup>
-1	10 <sup>-1</sup>	10 <sup>5</sup>	10 <sup>8</sup>
-2	10 <sup>-2</sup>	10 <sup>4</sup>	10 <sup>7</sup>
-3	10 <sup>-3</sup>	10 <sup>3</sup>	10 <sup>6</sup>
-4	10 <sup>-4</sup>	10 <sup>2</sup>	10 <sup>5</sup>
-5	10 <sup>-5</sup>	10 <sup>1</sup>	10 <sup>4</sup>
-6	10 <sup>-6</sup>	10 <sup>0</sup>	10 <sup>3</sup>
-7	10 <sup>-7</sup>	10 <sup>-1</sup>	10 <sup>2</sup>
-8	10 <sup>-8</sup>	10 <sup>-2</sup>	10 <sup>1</sup>
-9	10 <sup>-9</sup>	10 <sup>-3</sup>	10 <sup>0</sup>
-10	10 <sup>-10</sup>	10 <sup>-4</sup>	10 <sup>-1</sup>
-11	10 <sup>-11</sup>	10 <sup>-5</sup>	10 <sup>-2</sup>
-12	10 <sup>-12</sup>	10 <sup>-6</sup>	10 <sup>-3</sup>

<b>Abrasion Resistance</b>	Determination of the abrasion resistance of textile fabrics using the Martindale method according to ISO 12947; enables conclusions about the self-contamination by textile particles.
<b>Body Box</b>	An indispensable test cabin for testing the effectiveness of cleanroom fabrics under real environmental conditions.
<b>Breathability</b>	After determining the water vapour permeability of the textile, its breathability is assessed.
<b>Electrostatic Properties</b>	in addition to conductivity, the disposition to electric charge and discharging rate are particularly considered here
<b>Endless Filament</b>	A fibre of theoretically unlimited length is often described as continuous or endless filament; counted here are synthetics which are not cut at a specific length but also natural silk thread.
<b>ESD</b>	electrostatic discharge: a voltage breakdown caused by a large potential difference. These breakdowns (possibly visible as sparks) cause a short, high electric current and can lead to the ignition of flammable substances. Under unfavourable circumstances, fire and explosion hazards as well as hazards to persons due to electric shock may occur. Other undesirable consequences of electrostatic discharges are damage to electrical components in equipment.
<b>Fabric</b>	Textile area-measured material consisting of at least two crossed thread or yarn systems. The threads in the longitudinal direction are called warp threads (warp), the transverse threads are called weft threads (weft). The threads crossing each other regularly (this is called weave type) thus enable a relatively firm structure.
<b>Guaze</b>	Net-like, lightweight textile.
<b>Haptics</b>	Feature which is grasped through the tactile sense. The grip of a fabric. An often very subjective judgement, if a piece of clothing/textile feels pleasant or rather is classified as unpleasant.
<b>Knitted Fabric (knit fabric)</b>	Textile area-measured product consisting of knitted or crocheted fabrics obtained by means of one or more threads or yarns using at least two needles. Knitted fabrics are generally more elastic than woven fabrics.
<b>Microfibre (microfiber)</b>	The fineness of such a fibre is less than 1 dtex; i.e. 10,000 m of a microfiber weigh <1 g. Microfibre fabrics are very soft and retain their shape.
<b>Particle Migration Behaviour</b>	Particles and fibres released by frictional movements move through the textile due to mechanical forces.
<b>Particle Retention</b>	Filtration efficiency against airborne particles.
<b>Plain Weave</b>	These fabrics show the same fabric appearance on the upper and lower fabric side; each warp thread alternately crosses a weft thread; see also twill weave.
<b>PPE (Personal Protective Equipment)</b>	Items such as clothing designed to protect the wearer against risks arising from the working environment.
<b>Special Accessories/ Special Options</b>	Cleanroom garments are devised using the modular design principle. Standard models are defined (a sort of basic scaffolding) which, depending on customer requirements, can be extended with additional options (special accessories). Examples: bags, loops, knitted cuffs, logos etc.
<b>Textile Equipment</b>	Garments can be additionally equipped at the end of the manufacturing chain with defined surface finishes, thus to achieve a certain functionality of the fabric. E. g. durable water-repellent equipment and antimicrobial equipment.
<b>Triboelectric Behaviour</b>	The behaviour of electrical charges on plastic surfaces (here synthetic textile surfaces). Describes how susceptible a textile is to becoming charged by friction and how quickly it discharges again.
<b>Twill</b>	Also called twill weave, besides the plain weave and the satin weave, one of the three basic bonding types for woven fabric. A distinction is made between warp and weft twill, depending on whether the warp or weft threads are woven on the upper side of the goods predominate. A characteristic feature is the oblique burr.
<b>Twill Weave</b>	On these fabrics, a distinction is made between warps and wefts, depending if the warp or weft threads predominate on the top (face) of the fabric. A typical characteristic is the diagonally running ridge. See also plain weave.

## Request FORM / Talep Formu

E-MAIL: [info@temizodamarketi.com](mailto:info@temizodamarketi.com)

Please fill in this form and fax it back to us. / Lütfen formu doldurup bize geri yollayınız.

Our expert customer service team will contact you directly. / Uzman arkadaşlarımız sizinle temasa geçeceklerdir.

Page/Sayfa	Article / Ürün Adı	Quantity / Miktar	Colour / Renk	Size / Beden

### Notes / Not:

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Please specify your cleanroom classes / Lütfen temizoda sınıfınızı belirtiniz:

- ISO-3    ISO-4    ISO-5    ISO-6    ISO-7    ISO-8    ISO-9    NONE  
 A    B    C    D

Is your cleanroom / Temizodanız;

- Purely particle controlled area / Tamamen partikül kontrollü  
 Particle and microbiological controlled area /  
 Partikül ve mikrobiyolojik kontrollü alan  
 A non-controlled cleanroom / Kontrolsüz temizoda

Address / Company stamp

Phone/Fax:

I am also interested in the following information / Ayrıca lütfen aşağıdaki konularda da bilgi veriniz.

- |                          |   |                                    |
|--------------------------|---|------------------------------------|
| <input type="checkbox"/> | 1 | TECHNICAL DOKUMENTATION            |
| <input type="checkbox"/> | 2 | CLEANROOM GARMENTS                 |
| <input type="checkbox"/> | 3 | UNDERGARMENTS                      |
| <input type="checkbox"/> | 4 | CLEANROOM SERVICE                  |
| <input type="checkbox"/> | 5 | SHOES                              |
| <input type="checkbox"/> | 6 | DISPOSABLE AND PROTECTIVE CLOTHING |
| <input type="checkbox"/> | 7 | GLOVES AND FINGER COTS             |
| <input type="checkbox"/> | 8 | CLEANROOM PAPER AND ACCESSORIES    |
| <input type="checkbox"/> | 9 | CLEANROOM WIPES                    |

- |                          |   |                       |
|--------------------------|---|-----------------------|
| <input type="checkbox"/> | ↕ | CLEANING PRODUCTS     |
| <input type="checkbox"/> | ↕ | DISINFECTION PRODUCTS |
| <input type="checkbox"/> | ↕ | TACKY MATS            |
| <input type="checkbox"/> | ↕ | FILTERS               |
| <input type="checkbox"/> | ↕ | FURNITURE             |
| <input type="checkbox"/> | ↕ | DISPENSERS            |
| <input type="checkbox"/> | ↕ | MISCELLANEOUS         |
| <input type="checkbox"/> | ↕ | DRY FOG TECHNOLOGY    |







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