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ThermaSealTM 60

Dry | Pre-Wetted | Sterile



TECHNICAL DATA SHEET



ThermaSeal™ 60
100% polyester



Products

Number	Description	Sterile	Packaging	Case
<i>Dry Wipers—ThermaSeal™ 60</i>				
TX2064*	4" x 4" (10 cm x 10 cm) dry		300 wipers/bag (2 inner bags of 150)	20 bags
TX2068B*	7" x 8" (18 cm x 20 cm) dry, bulk packaged		200 wipers/bag	10 bags
TX2069*	9" x 9" (23 cm x 23 cm) dry		150 wipers/bag (2 inner bags of 75)	10 bags
TX2069B*	9" x 9" (23 cm x 23 cm) dry, bulk packaged		150 wipers/bag	10 bags
<i>Pre-Wetted Wipers—ThermaSat™ 60</i>				
STX4303**	7" x 8" (18 cm x 20 cm) pre-wetted with 70% IPA / 30% WFI	●	15 wipers/bag (1 bag/VHP barrier bag)	20 bags
TX4304**	9" x 9" (23 cm x 23 cm) pre-wetted with 70% IPA / 30% DI		75 wipers/bag	4 bags
STX4305**	9" x 9" (23 cm x 23 cm) pre-wetted with 70% IPA / 30% WFI	●	15 wipers/bag (1 bag/VHP barrier bag)	15 bags
STX4306**	11"x11" (28 cm x 28 cm) pre-wetted with 70% IPA / 30% WFI	●	20 wipers/bag	15 bags
TX4307**	4" x 4" (10 cm x 10 cm) pre-wetted with 70% IPA / 30% WFI		100 wipers/bag	15 bags
TX4308**	9" x 9" (23 cm x 23 cm) pre-wetted with 70% IPA / 30% WFI		20 wipers/bag	15 bags

*Made in China

**Made in Europe

T E C H N I C A L D A T A S H E E T

Description

ThermaSeal™ 60 is made from 100% polyester with a sealed edge, cleanroom laundered. Available dry (ThermaSeal™), pre-wetted (ThermaSat™), sterile and non-sterile.

Applications

- Wiping and cleaning surfaces, equipment and parts
- Applying and removing lubricants, adhesives, residues and other solutions including disinfectants.
- Cleaning with solvents such as isopropyl alcohol (IPA), ethanol, acetone, and degreasers.
- Cleaning gloves, notebooks, phones or any other item entering the cleanroom.
- Lining trays for holding, protecting, drying and storing of parts, equipment and devices.
- Appropriate for use with temperatures less than 400° F (205°C) (dry wipers only!).

Industries

Aerospace	Animal Laboratory	Biologics
Cleanroom Design/Build	Compounding Pharmacies	Data Storage
Facilities Maintenance	Industrial	Laboratory
Medical Device	Microelectronics	Pharmaceutical
Printing/Graphics	Semiconductor	USP <797> / USP <800>

Features & Benefits

- Constructed from 100% polyester creating a wiper ideal for spill control, cleaning, and solution application.
- Cleanroom laundering providing low levels of ions and NVRs (non-volatile residues) particles. (TX2064 & TX2069)
- Designed for use on abrasive surfaces. This wiper will not easily snag or abrade releasing particles and fibers into the process or environment.
- Excellent chemical resistance for compatibility with a variety of solutions.
- Autoclave safe (dry wipers only!).
- ThermaSeal™ and ThermaSat™ wipers are packaged in easy-to-open bags (perforated bag, slider bag or peel and reseal bag).
- ThermaSat™ products are prewet with 0.2 µm filtered 70% IPA / 30% DIW or 30% WFI for ease of use.
- ThermaSat™ wipers provide consistent, optimized cleaning efficiency with repeatable wetness and VOC levels.
- ThermaSat™ wipers are packaged in reclosable slider bags and peel-and-reseal bags reducing solution evaporation that preserves the consistent wiper wetness level.
- For aseptic manufacturing inside RABS and isolators, ThermaSat™ wipers also come in an additional VHP barrier foil bag providing protection for the product during the VHP sanitizing process.
- Meets USP <797> and USP <800> wiper requirements.
- Individually lot coded for ease of traceability and quality control.

Cleanroom Environment

- ISO Class 3 – 7
- Class 1 – 10,000
- EU Grade A – D

Shelf Life

- Non-Sterile (Dry) – 5 years from date of manufacture
- Non-Sterile (Pre-Wetted) – 3 years from date of manufacture
- Sterile (Dry & Pre-Wetted) – 3 years from the date of manufacture

Custom products available upon request.

T E C H N I C A L D A T A S H E E T

Performance Characteristics

Property	Typical Value	Test Method*
Particles and Fibers		
Particles: 0.5-5.0 µm	19 x 10 ⁶ particles/m ²	1, TM20
5.0-100 µm	79,000 particles/m ²	1, TM20
LPC: ≥0.5 µm	3.5 x 10 ⁶ particles/m ²	1, TM22
Fibers: >100 µm	600 fibers/m ²	2, TM22
Nonvolatile Residue		
IPA extractant	0.03 g/m ²	1, TM1
DIW extractant	0.01 g/m ²	1, TM1
Ions		
Sodium	0.3 ppm	1, TM18
Potassium	0.12 ppm	1, TM18
Chloride	0.06 ppm	1, TM18

Physical Characteristics

Property	Typical Value	Test Method*
Absorbency		
Sorptive capacity	350 mL/m ²	1, TM20
Sorptive rate	0.5 second	1, TM20
Basis Weight	122 g/m ²	1, TM20

Test Methods

- 1 – “Evaluating Wiping Materials Used in Cleanroom and Other Controlled Environments,” IEST-RP-CC004.3, Institute for Environmental Sciences and Technology, Rolling Meadows, IL, 2004; www.iest.org.
 - 2 – E2090-12, “Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Cleanroom Wipers Using Optical and Scanning Electron Microscopy,” ASTM International, West Conshohocken, PA, 2012; www.astm.org.
- TM – Refers to Texwipe Test Method – available upon request. Contact Texwipe Customer Service at www.texwipe.eu or info@texwipe.com for a copy.

Note: The data in this table represent typical analyses.

For sterile products:

- Irradiated to a Sterility Assurance Level of 10⁻⁶ according to AAMI Guidelines.
- Certificates of Compliance, Analysis and Irradiation attached to each case.
- Sterile Validation Documentation available upon request.

Texwipe holds ISO 9001:2015 registration.

All Texwipe products conform to GHS classification for labeling (where applicable).

Shipping classification based on weight of inner package.