

RevolveTM

Dry | Pre-Wetted Wipers
Sterile | Non-Sterile

TECHNICAL DATA SHEET



Made in USA

Revolve™
 100% Upcycled Polyester

Products

Number	Description	Sterile	Packaging	Case
<i>Revolve™ Non-Sterile Wipers</i>				
TX1704	4" x 4" (10 cm x 10 cm) dry		100 wipers/bag, double-bagged	20 bags
TX1709	9" x 9" (23 cm x 23 cm) dry		100 wipers/bag, double-bagged	10 bags
TX1712	12" x 12" (31 cm x 31 cm) dry		100 wipers/bag, double-bagged	10 bags
TX1704P	4" x 4" (10 cm x 10 cm) pre-wetted with USP-Grade 70% IPA/30% DI water		50 wipers/bag, double-bagged	8 bags
TX1709P	9" x 9" (23 cm x 23 cm) pre-wetted with USP-Grade 70% IPA/30% DI water		50 wipers/bag, double-bagged	4 bags
TX1712P	12" x 12" (31 cm x 31 cm) pre-wetted with USP-Grade 70% IPA/30% DI water		50 wipers/bag, double-bagged	4 bags
<i>Revolve™ Sterile Wipers</i>				
STX1704	4" x 4" (10 cm x 10 cm) dry, sterile	●	50 wipers/bag, triple-bagged	50 bags
STX1709	9" x 9" (23 cm x 23 cm) dry, sterile	●	100 wipers/bag (4 inner bags of 25 wipers), triple-bagged	5 bags
STX1712	12" x 12" (31 cm x 31 cm) dry, sterile	●	100 wipers/bag (4 inner bags of 25 wipers), triple-bagged	5 bags
STX1704P	4" x 4" (10 cm x 10 cm) pre-wetted with USP-Grade 70% IPA/30% DI water, sterile	●	50 wipers/bag, triple-bagged	4 bags
STX1709P	9" x 9" (23 cm x 23 cm) pre-wetted with USP-Grade 70% IPA/30% DI water, sterile	●	50 wipers/bag, triple-bagged	4 bags
STX1712P	12" x 12" (31 cm x 31 cm) pre-wetted with USP-Grade 70% IPA/30% DI water, sterile	●	50 wipers/bag, triple-bagged	4 bags

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Description

Revolve™ wipers, the first sustainable wipers made for the cleanroom industry, are made from 100% upcycled polyester material with a sealed edge, processed on Texwipe's fully automated manufacturing system.

Revolve™ wipers contribute to the sustainability goals, reducing the amount of post-consumer water bottles going into landfill and reducing the level of carbon emissions.

Available dry, pre-wetted, 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.
- Lining trays for holding, protecting, drying and storing of parts, equipment and devices.
- **Dry Wipers:** Appropriate for use with temperatures less than 400°F (205°C).
- **Pre-wetted Wipers:** Use with caution at elevated temperatures.

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>

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 date of manufacture

Features & Benefit

- Revolve™ processing provides low levels of ions, NVRs (non-volatile residues), particles and fibers or use in critical cleaning applications and environments.
- Designed for high sorption capacity which is ideal for spill control, cleaning, and solution application.
- Revolve™ pre-wetted products are pre-wet with 0.2 µm filtered USP-grade 70% IPA / 30% DIW.
- Revolve™ pre-wetted wipers provide consistent, optimized cleaning efficiency with repeatable wetness and VOC levels.
- Pre-wetted wipers are packaged in easy-to-use, recloseable slider bags, reducing solution evaporation that preserves the consistent wiper wetness level.
- Meets USP <797> and USP <800> wiper requirements.
- Autoclave safe (dry wipers only).
- Individually lot coded for traceability and quality control.

Sterile Products

- Triple-bagged with a case liner forming a fourth layer of protection.
- Gamma irradiated to a Sterility Assurance Level of 10⁻⁶ according to AAMI Guidelines.
- Certificates of Compliance, Analysis and Irradiation available at www.texwipe.com/certifications.
- Sterile Validation Documentation available upon request.

Sustainable Materials

- Every bag of Revolve™ product indicates the number of post-consumer water bottles used to make it. For example, 47 water bottles are required to make one bag of TX1709 wipers. By using the Revolve™ products, your company will participate in the reuse of the polyester polymer, saving the number of bottles indicated on each Revolve™ product bag from going into landfill.
- Texwipe does not add any other types of yarn to the wiper material.



Number of bottles used to make this bag of wipers.



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Performance Characteristics

Property	Typical Value	Test Method*
Particles and Fibers		
LPC: $\geq 0.5 \mu\text{m}$	5.5×10^6 particles/m ²	1, TM22
Fibers: $> 100 \mu\text{m}$	300 fibers/ m ²	2, TM22
Nonvolatile Residue		
IPA extractant	0.05 g/m ²	1, TM1
DIW extractant	0.01 g/m ²	1, TM1
Ions		
Sodium	0.08 ppm	1, TM18
Potassium	0.03 ppm	1, TM18
Chloride	0.04 ppm	1, TM18

Physical Characteristics

Property	Typical Value	Test Method*
Absorbency		
Sorptive capacity	450 mL/m ²	1, TM20
Sorptive rate	0.3 second	1, TM20
Basis Weight	125 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.com or info@texwipe.com for a copy.

Note: The data in this table represent typical analyses.

For more information on Revolve product line go to www.texwipe.com/revolve.

For TechNote [click here](#).

For Q&As [click here](#).

Texwipe holds ISO 9001 registration.

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

Shipping classification based on weight of inner package.

