Vertex™
Microdenier Wipers

TX59 is a 100% polyester double-knit microdenier wiper Made in the USA by Texwipe's revolutionary Vertex™ process, a hands-free wiper cleaning system. Vertex™ wipers are the cleanest, most consistent and rigorously quality tested cleanroom wiper.

The TX59 yarn has four times the number of filaments and twice the surface area in the yarn bundle compared to standard polyester wipes which increases wiping efficiency and creates the soft hand that is so uniquely characteristic of this microdenier wiper. TX59 does not leave behind a barrier layer and is able to capture more particles within the fiber bundle.

TX59 Microdenier Wiper is ideal for wiping surfaces that are most susceptible to scratching.

The Next Level of Clean™

Features

» Very tight, stable fabric construction

» Very soft hand to wiper

» 100% Polyester continuous filament yarn

» Quarterly microbial testing by Agarose Overlay and Limulus Amebocyte Lysate (LAL) endotoxin testing

» Increased surface area of microdenier yarn

Benefits

» Tight fabric provides less chance of catching on a surface and breaking yarn filaments in contrast with many microdenier fabrics with a loose construction

» Ideal for use on surfaces that are sensitive to scratching

» No cross contamination from nylon and can be used with bleach-based cleaners

» Provides assurance that the wiper does not carry cytotoxic leachables and is nonpyrogenic

» Ability to contact surface irregularities

» Demonstrated ability to capture microbial contamination (98% bacterial contamination reduction demonstrated)[1,2]

1. Wren, M.W.D., Rollins, M.S.M., Jeans, A, Hall, T.J., Coën, Gant, V.A., (2008). Removing bacteria from hospital surfaces: a laboratory comparison of ultramicrofibre and standard cloths. *Journal of Hospital Infection* 70, 265 – 271.

2. Environmental Protection Agency. (2002). Using Microfiber Mops in Hospitals [Fact sheet]. Retrieved from http://www.epa.gov/region9/waste/p2/projects/hospital/mops.pdf

Products

Number	Dry Wipers		Packaging
TX59	Vertex™	9" x 9" nominal (23 cm x 23 cm) sealed-edge microdenier wipers	100 wipers/bag, 10 bags/case

ITW Texwipe is the only wiper company to be ISO 9001:2000, 13485:2003,14001:2004 and OHSAS 18001:1999 registered.

Texwipe®
An *ITW* Company

For more information contact us at the numbers below or www.texwipe.com

Vertex™ Dry Wipers

Performance and Contamination Characteristics

Property	Typical Value	Test Method*
Absorbency		
Sorptive capacity	350 mL/m²	1, TM20
Sorptive rate	0.3 seconds	1, TM20
LPC		
≥0.5 µm	15.0 x 10⁶ particles/m²	1, TM22
Particles and fibers		
Particles 0.5–5.0 µm	4.8 x 10⁶ particles/m²	1, 2, TM22
5.0–100 µm	130,000 particles/m²	1, 2, TM22
Fibers >100 µm	520 fibers/m²	1, 2, TM22
Nonvolatile residue		
IPA extractant	0.07 g/m²	1, TM1
DIW extractant	0.01 g/m²	1, TM1

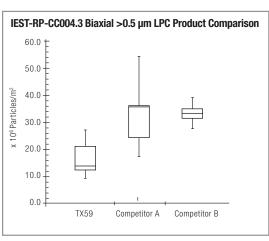| Property	Typical Value	Test Method*
Ions		
Fluoride	ND	1, TM18
Chloride	<0.10 ppm	1, TM18
Bromide	ND	1, TM18
Sulfate	<0.12 ppm	1, TM18
Phosphate	<0.24 ppm	1, TM18
Lithium	ND	1, TM18
Sodium	<0.30 ppm	1, TM18
Potassium	<0.08 ppm	1, TM18
Ammonium	ND	1, TM18
Calcium	<0.40 ppm	1, TM18
Magnesium	<0.04 ppm	1, TM18

Note: The data in these tables represent typical analyses of these wipers at the time of publication. These are not specifications. Values are reported in ppm (parts per million). Detection limit <0.009 ppm. Quantification limit of 0.009 ppm.

*Test Methods

1 – IEST-RP-CC004.3, 2004; www.iest.org.

2 – ASTM E2090-06, 2006; E2090-06, ASTM International; www.astm.org.

TM – Texwipe Test Method available upon request. Visit www.texwipe.com or contact Texwipe Customer Service at + 1-336-996-7046.

Wiper Consistency Data

ASTM E2090 >100 µm Product Comparison

The components of a Consistency Chart are:

» Line – represents the median or middle value of a ranked data set.

» Box – represents the range of values in which fifty percent of the data lie.

» Whisker – the line at each end of the box, expresses a range of values in which twenty-five percent of the data set lie.

» Outlier – indicates points that are significantly different than the rest of the data set.

Lower medians, smaller boxes and shorter whiskers together indicate cleaner and more consistent wipers.

ASTM E2090 0.5 - 5 µm Product Comparison

IEST-RP-CC004.3 Biaxial >0.5 µm LPC Product Comparison

ASTM E2090 5 - 100 µm Product Comparison