



The Next Level of Clean™

## Vertex™ High Durability Wipers

TX22 and TX29 are 100% polyester double-knit wipers designed to provide the most suitable combination of sorption capacity with maximum abrasion resistance, ideal for use on surfaces with sharp edges. Made in the USA with Texwipe's revolutionary Vertex™ manufacturing process, these wipers are available in two sizes: 9" x 9" and 12" x 12".

The Vertex™ manufacturing process cleans, converts, and packages wipers in an integrated, hands-free micro-environment. Vertex™ wipers are manufactured in an ISO Class 3 environment with a small physical footprint, which makes for a more sustainable manufacturing process.

The Vertex™ system incorporates real time process monitoring and alarms for critical parameters to produce the most consistent cleanroom wipers available.

### Features

- » Wiper is designed for maximum abrasion resistance
- » Available in 9" x 9" and 12" x 12" sizes
- » Quarterly microbial testing by Agarose Overlay and Limulus Amebocyte Lysate (LAL) endotoxin testing

### Benefits

- » Wiper can be used on rough surfaces or sharp edges minimizing particle release from catching on the surface
- » One wiper suitable for multiple applications
- » Provides assurance that the wiper does not carry cytotoxic leachables and is nonpyrogenic

### Products

Number	Dry Wipers	Packaging
<b>TX22</b>	Vertex™ 12" x 12" nominal (30 cm x 30 cm) laser edge wipers	100 wipers/bag, 10 bags/case
<b>TX29</b>	Vertex™ 9" x 9" nominal (23 cm x 23 cm) laser edge wipers	150 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.



For more information contact us at the numbers below or [www.texwipe.com](http://www.texwipe.com)

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# Vertex™ Dry Wipers

## Performance and Contamination Characteristics

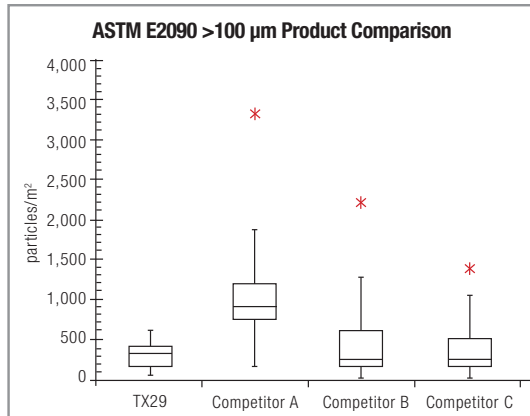
Property	Typical Value	Test Method*	Property	Typical Value	Test Method*
Absorbency			Ions		
Sorptive capacity	350 mL/m <sup>2</sup>	1, TM20	Lithium	ND	1, TM18
Sorptive rate	0.3 seconds	1, TM20	Bromide	ND	1, TM18
LPC			Potassium	<0.03 ppm	1, TM18
≥0.5 μm	7.4 x 10 <sup>6</sup> particles/m <sup>2</sup>	1, TM22	Ammonium	ND	1, TM18
Particles and fibers			Chloride	<0.02 ppm	1, TM18
Particles 0.5–5.0 μm	2.1 x 10 <sup>6</sup> particles/m <sup>2</sup>	1, 2, TM22	Fluoride	ND	1, TM18
5.0–100 μm	48,600 particles/m <sup>2</sup>	1, 2, TM22	Magnesium	<0.02 ppm	1, TM18
Fibers >100 μm	290 fibers/m <sup>2</sup>	1, 2, TM22	Phosphate	ND	1, TM18
Nonvolatile residue			Calcium	<0.05 ppm	1, TM18
IPA extractant	0.02 g/m <sup>2</sup>	1, TM1	Sodium	<0.08 ppm	1, TM18
DIW extractant	0.01 g/m <sup>2</sup>	1, TM1	Sulfate	<0.12 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**

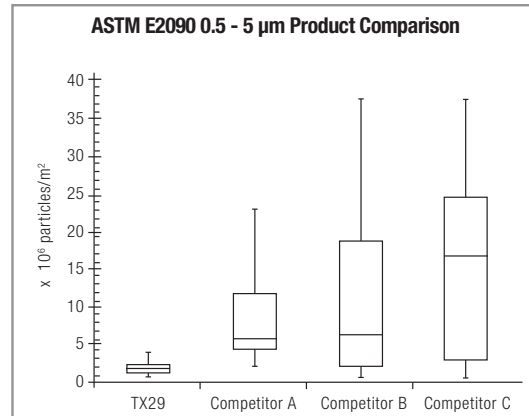
- 1 – IEST-RP-CC004.3, 2004; www.iest.org.
- 2 – ASTM E2090-06, 2006; E2090-06, ASTM International; www.astm.org.
- TM – Texwipe Test Method available upon request. Visit www.texwipe.com or contact Texwipe Customer Service at + 1-336-996-7046.

## Wiper Consistency Data



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.**

