

Wiper Cleanliness Chart

Technical Hotline 1-800-TEXWIPE ext. 212

| Cleanroom Class | Optimum Wiper Type | ITW Texwipe Wipers | Releasable Particles and Fibers | | | Non-Volatile Residue | | Ion Levels | | | Performance Characteristics |
|---------------------------------------|-----------------------------------|-----------------------|---|---------------------------------------|---------------------------------|-----------------------------|-----------------------------|--------------|-----------------|----------------|------------------------------|
| | | | 0.5–5.0 μm Particles* 10 ⁶ /m ² | 5.0–100 μm Particles* /m ² | >100 μm Fibers* /m ² | NVR IPA (g/m ²) | NVR DIW (g/m ²) | Sodium (ppm) | Potassium (ppm) | Chloride (ppm) | Absorbency mL/m ² |
| ISO Class 3–5 Formerly 1–100 | Sealed Border | Vectra® Alpha® 10 | 2.2 | 81,000 | 180 | 0.05 | 0.01 | 0.18 | 0.08 | 0.03 | 320 |
| | | Vectra® AlphaSorb® 10 | 2.8 | 180,000 | 250 | 0.06 | 0.02 | 0.18 | 0.13 | 0.04 | 540 |
| | | Vectra® Alpha® MD | 7.0 | 155,000 | 350 | 0.07 | 0.03 | 0.80 | 0.11 | 0.14 | 320 |
| | | Vectra® Honeycomb® 10 | 1.8 | 88,000 | 220 | 0.06 | 0.02 | 0.30 | 0.09 | 0.06 | 360 |
| | | Vectra® Quantum® 100 | 3.0 | 145,000 | 140 | 0.05 | 0.02 | 0.25 | 0.08 | 0.08 | 385 |
| | | Vectra® Alpha® Nu | 3.3 | 100,000 | 450 | 0.03 | 0.01 | 0.30 | 0.16 | 0.03 | 400 |
| | | Vectra® Quantex™ | 6.2 | 135,000 | 220 | 0.06 | 0.01 | 0.30 | 0.20 | 0.08 | 325 |
| | | TexTra™ 10 | 7.7 | 120,000 | 200 | 0.03 | 0.02 | 0.40 | 0.06 | 0.01 | 600 |
| | | TexTube® | 3.5 | 160,000 | 105 | 0.12 | 0.04 | 0.11 | 0.16 | 0.26 | 780 |
| | Sealed Edge | ThermaSeal™ 60 | 3.1 | 106,000 | 1100 | 0.05 | 0.01 | 0.30 | 0.12 | 0.06 | 350 |
| ISO Class 5–8 Formerly 100–100,000 | Cut Edge | AlphaWipe® | 18 | 200,000 | 2,000 | 0.07 | 0.02 | 0.22 | 0.09 | 0.07 | 530 |
| | | AlphaSorb® HC** | 10 | 400,000 | 500 | 0.09 | 0.02 | 0.10 | 0.10 | 0.09 | 680 |
| | | TexTra™ | 15 | 182,000 | 500 | 0.04 | 0.01 | 0.15 | 0.15 | 0.10 | 550 |
| | | AlphaLite® | 10 | 152,000 | 1,400 | 0.06 | 0.01 | 0.15 | 0.03 | 0.10 | 350 |
| | | MiracleWipe® | 15 | 200,000 | 2,000 | 0.35 | 0.67 | 0.22 | 0.50 | 0.50 | 530 |
| | Nonwoven | TechniCloth® | 123 | 2.1 x 10 ⁶ | 258,000 | 0.02 | 0.06 | 46.0 | 4.00 | 16.0 | 280 |
| | | TechniCloth® II | 90 | 500,000 | 40,000 | 0.11 | 0.11 | 75.0 | 6.00 | 28.0 | 220 |
| | | VersaWipe® | 71 | 1.0 x 10 ⁶ | 292,600 | 0.02 | 0.03 | 47.0 | 2.00 | 24.0 | 260 |
| | | BlueWipe® | 200 | 4.0 x 10 ⁶ | 140,000 | 0.03 | 0.07 | 15.0 | 3.00 | 24.0 | 280 |
| | Hydroentangled Polyester | Absorbond® | 60 | 1.5 x 10 ⁶ | 23,000 | 0.01 | 0.005 | 7.00 | 2.00 | 5.00 | 210 [†] |
| | Cotton | TexWipe® | 375 | 15 x 10 ⁶ | 80,000 | 0.35 | 0.20 | 50.0 | 2.00 | 4.00 | 250 |
| | Foam | FoamWipe™ | 10 | 2.5 x 10 ⁶ | 8,500 | 2.79 | 1.28 | 93.0 | ND | 18.0 | 625 [†] |
| | Polypropylene/Cellulose Composite | BetaWipe™ | 500 | 5.0 x 10 ⁶ | 90,000 | 0.91 | 0.28 | 50.0 | 6.00 | 11.0 | 555 |

* ASTM E2090 provides a more sensitive test and a more complete measurement of particles and fibers than other standard test methods.

** 12" x 12" wipers tested. † Absorbency test performed using IPA. ND–Non Detected