

Wiper Cleanliness Chart

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	5.0–100µm Particles* /m ²	>100µm 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 3–4 Formerly 1–10	Sealed Border	Vectra® Alpha® 10	2.9	81,000	180	0.05	0.02	0.25	0.08	0.05	300
		Vectra® AlphaSorb® 10	3.0	80,000	100	0.06	0.02	0.35	0.13	0.09	540
		Vectra® Honeycomb® 10	3.6	94,000	220	0.06	0.03	0.13	0.09	0.07	360
		Vectra® Quantum® 100	3.0	64,000	140	0.06	0.02	0.16	0.08	0.08	420
		Vectra® Quantex™	6.2	144,000	220	0.03	0.01	0.20	0.20	0.08	325
		Vectra® AlphaSorb® II	7.7	120,000	200	0.03	0.02	0.40	0.06	0.01	600
		TexTube®	3.5	160,000	90	0.12	0.04	0.11	0.16	0.26	780
ISO Class 4–5 Formerly 10–100	Sealed Edge	ThermaSeal™ 60	5	200,000	600	0.07	0.02	0.20	0.12	0.06	350
ISO Class 5–6 Formerly 100–1,000	Cut Edge	AlphaWipe®	9	200,000	2,000	0.08	0.02	0.22	0.09	0.08	460
		AlphaSorb® HC**	10	400,000	500	0.09	0.02	0.10	0.10	0.09	680
		AlphaSorb® HS**	10	182,000	500	0.04	0.01	0.15	0.15	0.10	650
		AlphaLite®	15	200,000	2,000	0.07	0.01	0.15	0.03	0.04	350
		MiracleWipe®	15	200,000	2,000	0.35	0.67	0.22	0.50	0.50	530
ISO Class 6–7 Formerly 1,000 -10,000	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	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 [†]
	Hydroentangled Polyester/Polypropylene	TexSorb™	31.0	1.2 x 10 ⁵	7,539	0.50	0.16	180	8.00	100.0	385
ISO Class 7-8 Formerly 10,000-100,000	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



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