

# 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 <sup>6</sup> /m <sup>2</sup>	5.0–100 μm Particles* /m <sup>2</sup>	>100 μm Fibers* /m <sup>2</sup>	NVR IPA (g/m <sup>2</sup> )	NVR DIW (g/m <sup>2</sup> )	Sodium (ppm)	Potassium (ppm)	Chloride (ppm)	Absorbency mL/m <sup>2</sup>
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 <sup>6</sup>	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 <sup>6</sup>	292,600	0.02	0.03	47.0	2.00	24.0	260
		BlueWipe®	200	4.0 x 10 <sup>6</sup>	140,000	0.03	0.07	15.0	3.00	24.0	280
	Hydroentangled Polyester	Absorbond®	60	1.5 x 10 <sup>6</sup>	23,000	0.01	0.005	7.00	2.00	5.00	210 <sup>†</sup>
	Cotton	TexWipe®	375	15 x 10 <sup>6</sup>	80,000	0.35	0.20	50.0	2.00	4.00	250
	Foam	FoamWipe™	10	2.5 x 10 <sup>6</sup>	8,500	2.79	1.28	93.0	ND	18.0	625 <sup>†</sup>
	Polypropylene/Cellulose Composite	BetaWipe™	500	5.0 x 10 <sup>6</sup>	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