



Basic Cleanroom Design Rules and Equivalents

Classification			Air Changes per Hour	Allowable particle size limits					Microbial cfu/m ³
FS 209E	14644-1	EU GMP		0.1µm	0.2µm	0.3µm	0.5µm	5µm	
	ISO 1		600+	10/m ³	—	—	—	—	—
	ISO 2			100/m ³	24/m ³	10/m ³	—	—	—
	ISO 3			1,000/m ³	237/m ³	102/m ³	35/m ³	—	—
Class 1				35/ft ³	7.5/ft ³	3/ft ³	1/ft ³	—	—
Class 10	ISO 4		600	10,000/m ³ 350/ft ³	2,370/m ³ 75/ft ³	1,020/m ³ 30/ft ³	352/m ³ 10/ft ³	—	—
Class 100	ISO 5	Grade A/B	300 to 480	100,000/m ³ —	23,700/m ³ 750/ft ³ 26,500/m ³	10,200/m ³ 300/ft ³ 10,600/m ³	3,520/m ³ 100/ft ³ 3,520/m ³	29 —	<1/≤10
Class 1,000	ISO 6		180	1,000,000/m ³ —	237,000/m ³ —	102,000/m ³ —	35,200/m ³ 1,000/ft ³	293/m ³ 7/ft ³	—
Class 10,000	ISO 7	Grade C	60	—	—	—	352,000/m ³ 10,000/ft ³ 352,000/m ³	2,930/m ³ 70/ft ³ 2,470/m ³	≤100
Class 100,000	ISO 8	Grade D	36	—	—	—	3,520,000/m ³ 100,000/ft ³ 3,520,000/m ³	29,300/m ³ 700/ft ³ 29,000/m ³	≤200
	ISO 9			—	—	—	35,200,000/m ³	293,000/m ³	—

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