

Basic Cleanroom Design Rules and Equivalents

Classification			Air Changes	Allowable particle size limits				
FS 209E	S1	ISO	per Hour	0.1µm	0.2µm	0.3µm	0.5µm	5µm
	M1	Class 3		1,000/m ³ 350/m ³	237/m ³ 75.7/m ³	102/m ³ 30.9 m ³	35/m ³ 10.0/m ³	---
1	M1.5 M2		600+	35/ft ³ 1,240/m ³	7.5/ft ³ 265/m ³	3/ft ³ 106/m ³	1/ft ³ 11/m ³	---
	M2			3,500/m ³	757/m ³	309/m ³	100/m ³	---
10	M2.5 M3	Class 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	---
	M3			12,400/m ³ 35,000/m ³	2,650/m ³ 7,570/m ³	1,060/m ³ 3,090/m ³	353/m ³ 1,000/m ³	---
100	M3.5 M4	Class 5	300 to 480	100,000/m ³ ---	23,700/m ³ 750/ft ³	10,200/m ³ 300/ft ³	3,520/m ³ 100/ft ³	29/m ³ ---
	M4			---	26,500/m ³ 75,700/m ³	10,600/m ³ 30,900/m ³	3,530/m ³ 10,000/m ³	---
1,000	M4.5 M5	Class 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
	M5			---	---	---	35,300/m ³ 100,000/m ³	247/m ³ 618/m ³
10,000	M5.5 M6	Class 7	60	---	---	---	352,000/m ³ 10,000/ft ³	2,930/m ³ 70/ft ³
	M6			---	---	---	353,000/m ³ 1,000,000/m ³	2,470/m ³ 6,180/m ³
100,000	M6.5 M7	Class 8	36	---	---	---	3,520,000/m ³ 100,000/ft ³	29,300/m ³ 700/ft ³
	M7			---	---	---	3,530,000/m ³ 10,000,000/m ³	24,700/m ³ 61,800/m ³