

ASHRAE 52.2-2007				ASHRAE 52.1		EUROPEAN		PARTICLE SIZES (microns)	APPLICATIONS
MERV	PARTICLE SIZES (microns)			TEST PERFORMED		TEST STANDARD			
		3 - 10	1 - 3	0.3 - 1	Arrestance	Dust Spot	EN 779	EN 1822	
1	< 20%	-	-	< 65%	< 20%	G1	-	> 10	light pollen dust mites
2	< 20%	-	-	65-70%	< 20%	G2	-		
3	< 20%	-	-	70-75%	< 20%	G2	-		
4	< 20%	-	-	75-80%	< 20%	G2	-		
5	20-35%	-	-	80-90%	< 20%	G3	-	3.0 - 10	industrial dust mold spores
6	35-50%	-	-	> 90%	20-25%	G4	-		
7	50-70%	-	-	> 90%	25-30%	G4	-		
8	> 70%	-	-	> 95%	35-40%	G4	-		
9	> 85%	< 50%	-	> 95%	40-45%	F5	-	1.0 - 3.0	industrial Legionella dust
10	> 85%	50-65%	-	> 95%	50-55%	F5	-		
11	> 85%	65-80%	-	> 98%	60-65%	F6	-		
12	> 90%	> 80%	-	> 98%	70-75%	F6	-		
13	> 90%	> 90%	< 75%	> 98%	80-85%	F7	-	0.3 - 1.0	hospitals smoke removal bacteria
14	> 90%	> 90%	75-85%	> 98%	90-95%	F8	-		
15	> 90%	> 90%	85-95%	> 98%	= 95%	F9	-		
16	> 95%	> 95%	> 95%	> 98%	> 95%	-	H11		
17	-	-	≥ 99.97%	-	-	-	H13	< 0.3	clean rooms surgery chem-bio viruses
18	-	-	≥ 99.99%	-	-	-	H14		
19	-	-	≥ 99.999%	-	-	-	-		
20	-	-	≥99.9999%	-	-	-	-		