

ASHRAE Standard 52.2-1999				ASHRAE 52.1		EN	EN779:2012			EN 1822
Minimum Eff Reporting Value	Composite Average Particle Size Efficiency % in Size Range, $\mu\text{m}$			Average Arrestance	Average Dust Spot Efficiency	Filter Class	Av. Arrestance of Syn. Dust	Average Eff at 0.4 $\mu\text{m}$	Min. Eff at 0.4 $\mu\text{m}$	Average Eff at MPPS
	Range 1	Range 2	Range 3	<i>NB. This standard is obsolete and here for reference only. Performances are not equivalent to ASHREA 52:2 or EN779.</i>			Test Final DP 250Pa	Test Final DP 450Pa		
(MERV)	0.30 - 1.0	1.0 - 3.0	3.0 - 10.0	%	%		%	%	%	%
1	n/a	n/a	E3<20	Aavg<65	<20	G1	50≤Am≤65			
2	n/a	n/a	E3<20	Aavg<65	<20	G2	65≤Am≤80			
3	n/a	n/a	E3<20	Aavg<70	<20					
4	n/a	n/a	E3<20	Aavg<75	<20					
5	n/a	n/a	E3≥20	80	20	G3	80≤Am≤90			
6	n/a	n/a	E3≥35	85	20-25					
7	n/a	n/a	E3≥50	90	25-30	G4	90Am≤			
8	n/a	n/a	E3≥70	92	30-35					
9	n/a	n/a	E3≥85	95	40-45	M5		40≤Em≤60		
10	n/a	E2≥50	E3≥85	96	50-55					
11	n/a	E2≥65	E3≥85	97	60-65	M6		60≤Em≤80		
12	n/a	E2≥80	E3≥90	98	70-75					
13	n/a	E2≥90	E3≥90	98	80-85	F7		80≤Em≤90	35	
14	E1≥75	E2≥90	E3≥90	99	90-95	F8		90≤Em≤95	55	
15	E1≥85	E2≥90	E3≥90	99	95	F9		95≤Em	70	
16	E1≥95	E2≥95	E3≥95	100	99	E10				<85
N/A	N/A	N/A	N/A	N/A	N/A	E11				<95
						E12				<99.5
						H13				<99.95
						H14				<99.995
						U15				<99.9995
						U16				<99.99995
						U17				<99.999995

Note: The final MERV value is the highest MERV where the filter data meets all requirements of that MERV.