



# Air Filter Test Standard Comparison Chart

ASHRAE 52.2, ISO16890, EN779

ASHRAE Standard 52.2-2017					ISO 16890				EN779 (Obsolete)						
Minimum Efficiency Reporting Value	Composite Average Particles Size Efficiency E value (%) in Size Range			Avg. Arrest.	Average of Initial and Discharged Efficiency $E_{av} = (E_i + E_d)/2$		Initial Efficiency (E)	Initial Efficiency (A)	Fiber Class	Avg. Arrest. (A <sub>av</sub> ) of Synthetic Dust	Avg. Eff. (E <sub>av</sub> ) at 0.4µm	Min. Eff. (E <sub>min</sub> ) at 0.4µm			
	MERV	Range 1 (µm)	Range 2 (µm)	Range 3 (µm)	%	ePM1 (%)	ePM2.5 (%)	ePM10 (%)					ISO Coarse (%)		
		0.3 - 1.0	1.0 - 3.0	3.0 - 10.0		0.3-1.0	1.0-3.0	3.0-10.0					ISO Fine Dust		
1			$E_p < 20$	$A_{av} < 65$				$A_1 < 50$ Final dP 200 Pa	G1	$50 < A_{av} < 65$					
2			$E_p < 20$	$65 < A_{av}$								G2	$65 < A_{av} < 80$		
3			$E_p < 20$	$70 < A_{av}$											
4			$E_p < 20$	$75 < A_{av}$											
5			$E_p > 20$	N/A				$A_2 > 50$ Final dP 300 Pa	G3	$80 < A_{av} < 90$					
6			$E_p > 35$	N/A											
7			$E_p > 50$	N/A											
8		$E_p > 20$	$E_p > 70$	N/A											
9		$E_p > 35$	$E_p > 75$	N/A					M5		$40 < E_{av} < 60$				
10		$E_p > 50$	$E_p > 80$	N/A						$E_p > 50$					
11	$E_p > 20$	$E_p > 65$	$E_p > 85$	N/A					M6		$60 < E_{av} < 80$				
12	$E_p > 35$	$E_p > 80$	$E_p > 90$	N/A						$E_p > 50$	$E_p > 70$				
13	$E_p > 50$	$E_p > 85$	$E_p > 90$	N/A	$E_p > 50$	$E_p > 65$	$E_p > 80$		F7		$80 < E_{av} < 90$	$E_{min} > 35$			
14	$E_p > 75$	$E_p > 90$	$E_p > 95$	N/A	$E_p > 70$	$E_p > 75$	$E_p > 85$		F8		$90 < E_{av} < 95$	$E_{min} > 55$			
15	$E_p > 85$	$E_p > 90$	$E_p > 95$	N/A					F9		$95 < E_{av}$	$E_{min} > 70$			
16	$E_p > 95$	$E_p > 95$	$E_p > 95$	N/A									$E_p > 80$		

$A_i$  = Initial Arrestance  
 $A_{av}$  = Average Arrestance  
 $E_i$  = Initial Efficiency  
 $E_d$  = Discharged Efficiency  
 $E_{av}$  = Average Efficiency  
 $E_{min}$  = Minimum Efficiency

- The filter class is the highest class where the filter meets all requirements.
- Comparisons are approximations given for reference only. Filters should be tested to the most recent standards.
- For ISO ePM1 and ePM2.5 both initial and discharged efficiency need to be over 50% to qualify for a class.
- Comparisons between ISO 16890 and ASHRAE 52.2 are more accurate when the MERV-A value is used.

Feb-2021

# Ashrae 52 Explained Camfil

**Zhe Xu**



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web the pressure of the gas the pressure of the gas was calculated using dalton s law of partial pressures by subtracting the pressure of the water vapor from the total pressure which in this case was the atmospheric pressure 760mm hg the pressure of the water vapor was found by using the temperature of the water

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web although the most convenient gas for this is butane other gases may be available in similar small cylinders the collection

of a gas sample and the weighing of the gas cylinder before and after this should take about 5 10 minutes as a demonstration  
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