MERV RATING CHART FILTRATION PERFORMANCE



Standard 52.5 Minimum Efficiency Reporting	Dust Spot		Typical Controlled	Typical Applications and	
Value	Efficiency	Arrestance	Contaminant	Limitations	Typical Air Filter/Cleaner Type
20	-1-	-1-	40.20ti-li	01	≥99.999% eff. On .1020 pm
	n/a	n/a	< 0.30 pm particle size	Cleanrooms	Particles Particles
19	n/a	n/a	Virus (unattached)	Radioactive Materials	_
18	n/a	n/a	Carbon Dust	Pharmaceutical Man.	Particulates
17	n/a	n/a	All Combustion smoke	Carcinogenetic Materials	<u>>99.97% eff. On .30 pm Particles</u>
16	n/a	n/a	.30-1.0 pm Particle Size	General Surgery	Bag Filter- Nonsupported
15	>95%	n/a	All Bacteria	Hospital Inpatient Care	microfine fiberglass or
14	90-95%	>98%	Most Tobacco Smoke	Smoking Lounges	synthetic media, 12-36 in. deep, 6- 12 pockets
	30 3370	23070	Wood Tobacco Chicke	Chloking Lounges	Box Filter- Rigid Style Cartridge
					Filters 6 to 12" deep m ay use
13	89-90%	>98%	Proplet Nuceli (Sneeze)	Superior Commercial Buildings	lofted or paper media.
12	70-75%	>95%	1.0-3.0 pm Particle Size	Superior Residential	Bag Filter- Nonsupported
			Legionella		microfine fiberglass or
11	CO CEN/	. 050/	11 - : rr - D - 1	Rattan Canananial Buildings	synthetic media, 12-36 in. deep, 6-
11	60-65%	>95%	Humidifier Dust	Better Commercial Buildings	12 pockets
			Lead Dust		Box Filter- Rigid Style Cartridge
					Filters 6 to 12" deep m ay use
10	50-55%	>95%	Milled Flour		lofted or paper media.
			Auto Emissions	Hospital Laboratories	
9	40-45%	>90%	Welding Fumes		
					Pleated Filters- Disposable,
8	30-35%	>90%	3.0-10.0 pm Particle Size	Commercial Buildings	extended surface area, thick with
			Mold Spores		cotton-polyester blend media, cardboard frame
7	25-30%	>90%	Hair Spray	Better Residential	cardboard frame
'	25-3070	23070	Tiali Opray	Detter Nesideritian	Cartridge Filters- Graded density
					viscous coated cube or pocket
			Fabric Protector		filters, synthetic media
6	<20%	85-90%	Dusting Aids	Industrial Workplace	
					Throwaway- Disposable
_			Cement Dust		synthetic panel filter.
5	<20%	80-85%	Pudding Mix	Paint Booth Inlet	Throwaway- Disposable
4	<20%	75-80%	>10.0 pm Particle Size	Minimal Filtration	fiberglass or synthetic panel filter.
'	2070	100070	Pollen	The state of the s	gz. e. eye.e parior mor.
3	<20%	70-75%	Dust Mites	Residential	Washable- Aluminum Mesh
	-2070	101070	Sanding Dust	. to state that	The state of the s
2	<20%	65-70%	Spray Paint Dust		
_	2070	03-1070	Opray raint Dust		Electrostatic- Self charging
			Textile Fibers	Window A/C Units	woven panel filter.
1	<20%	<65%	Carpet Fibers		

A **MERV rating chart** shows a numerical value. The range is from 1 (lowest efficiency) to 20 (highest efficiency). **MERV** stands for Minimum Efficiency Reporting Value. This is an industry standard **rating** system.