

MERV Definitions

MERV	Dust Spot Efficiency	Particle Size	Application	Typical Filter
17-20	N/A	$\leq 0.30 \mu\text{m}$	Clean Rooms, Pharm, Orthopedic Surgery, Electronics	HEPA/ULPA 99.97% to 99.999% Efficiency
16	N/A	0.3-1.0 μm	Hospital, General Surgery, Smoking lounges, Superior commercial buildings	Bag Filters (microfine fiberglass & synthetic) Box filters
15	>95%			
14	90-95%			
13	80-90%			
12	70-75%	1.0-3.0 μm	Better commercial buildings, Hospital laboratories	Bag Filters (microfine fiberglass & synthetic) Box filters
11	60-65%			
10	50-55%			
9	40-45%			
8	30-35%	3.0-10.0 μm	Commercial Buildings, Industrial workplaces	Pleated Filters Cartridge Filters (Cubes) Throwaway (Synthetic Media)
7	25-30%			
6	<20%			
5	<20%			
4	<20%	>10.0 μm	Minimum filtration requirements	Throwaway Washable Electrostatic
3	<20%			
2	<20%			
1	<20%			