

# MERV RATING CHART

| Standard 52.5 Minimum Efficiency Reporting Value | Dust Spot Efficiency | Arrestance | Typical Controlled Contaminant         | Typical Applications and Limitations | Typical Air Filter/Cleaner Type  |
|--|----------------------|------------|--|--------------------------------------|--|
| 20   | n/a                  | n/a        | < 0.30 pm particle size                | Cleanrooms                           | ≥99.999% eff. On .10-.20 pm Particles  |
| 19   | n/a                  | n/a        | Virus (unattached)                     | Radioactive Materials                | Particulates   |
| 18   | n/a                  | n/a        | Carbon Dust                            | Pharmaceutical Man.                  | Particulates   |
| 17   | n/a                  | n/a        | All Combustion smoke                   | Carcinogenetic Materials             | ≥99.97% eff. On .30 pm Particles   |
| 16   | n/a                  | n/a        | .30-1.0 pm Particle Size               | General Surgery                      | <b>Bag Filter</b> - Nonsupported microfine fiberglass or synthetic media, 12-36 in. deep, 6-12 pockets               |
| 15   | >95%                 | n/a        | All Bacteria                           | Hospital Inpatient Care              |  |
| 14   | 90-95%               | >98%       | Most Tobacco Smoke                     | Smoking Lunges                       | <b>Box Filter</b> - Rigid Style Cartridge Filters 6 to 12" deep may use lofted or paper media.                       |
| 13   | 89-90%               | >98%       | Proplet Nuceli (Sneeze)                | Superior Commercial Buildings        |  |
| 12   | 70-75%               | >95%       | 1.0-3.0 pm Particle Size<br>Legionella | Superior Residential                 | <b>Bag Filter</b> - Nonsupported microfine fiberglass or synthetic media, 12-36 in. deep, 6-12 pockets               |
| 11   | 60-65%               | >95%       | Humidifier Dust<br>Lead Dust           | Better Commercial Buildings          | <b>Box Filter</b> - Rigid Style Cartridge Filters 6 to 12" deep may use lofted or paper media.                       |
| 10   | 50-55%               | >95%       | Milled Flour<br>Auto Emissions         | Hospital Laboratories                |  |
| 9  | 40-45%               | >90%       | Welding Fumes                          |                                      |  |
| 8  | 30-35%               | >90%       | 3.0-10.0 pm Particle Size              | Commercial Buildings                 | <b>Pleated Filters</b> - Disposable, extended surface area, thick with cotton-polyester blend media, cardboard frame |
| 7  | 25-30%               | >90%       | Mold Spores<br>Hair Spray              | Better Residential                   | <b>Cartridge Filters</b> - Graded density viscous coated cube or pocket filters, synthetic media                     |
| 6  | <20%                 | 85-90%     | Fabric Protector<br>Dusting Aids       | Industrial Workplace                 | <b>Throwaway</b> - Disposable synthetic panel filter.  |
| 5  | <20%                 | 80-85%     | Cement Dust<br>Pudding Mix             | Paint Booth Inlet                    |  |
| 4  | <20%                 | 75-80%     | >10.0 pm Particle Size<br>Pollen       | Minimal Filtration                   | <b>Throwaway</b> - Disposable fiberglass or synthetic panel filter.  |
| 3  | <20%                 | 70-75%     | Dust Mites<br>Sanding Dust             | Residential                          | <b>Washable</b> - Aluminum Mesh  |
| 2  | <20%                 | 65-70%     | Spray Paint Dust                       |                                      | <b>Electrostatic</b> - Self charging woven panel filter.   |
| 1  | <20%                 | <65%       | Textile Fibers<br>Carpet Fibers        | Window A/C Units                     |  |