

Air filter selection chart

Typical particle arrestance efficiency for various grades of filter media Particulate diameter in microns

1 micron = 1/1000 of a mm

10 micron = 10/1000 of a mm and is the smallest particle able to be seen by the human eye.

| Rating performance | 10 micron | 5 micron | 1 micron | 0.5 micron | 0.1- 0.3 micron | Filter type |
|--------------------|-----------|----------|----------|------------|-----------------|-------------|
| G1 | 90% | 60% | 20% | 0% | 0% | pre-filter |
| G2 | 96% | 75% | 30% | 10% | 0% | pre-filter |
| G3 | 97% | 85% | 45% | 25% | 0% | pre-filter |
| G4 | 98% | 92% | 58% | 35% | 5% | pre-filter |
| F5 | 98% | 97% | 70% | 45% | 20% | secondary |
| F6 | 99% | 98% | 82% | 62% | 40% | secondary |
| F7 | 99.9% | 99% | 88% | 72% | 55% | secondary |
| F8 | 99.9% | 99.9% | 97% | 88% | 78% | secondary |
| F9 | 99.99% | 99.99% | 98% | 95% | 93% | secondary |
| H10-H14 | 100% | 100% | 100% | 100% | 99.99% | HEPA |
| U15-U17 | 100% | 100% | 100% | 100% | 99.9975% | ULPA |

For more information on HEPA or ULPA grades please contact your local distributor

AS1324 test dusts approximate micron sizes

No. 1 (methylene blue) - mass median diameter of .65 microns

No.4 5% Cotton fibres

23% Mollocko Black 0.8 micron

72% Air Cleaner fibres

| | |
|-----|-----------------|
| 39% | 0 to 5 micron |
| 18% | 5 to 10 micron |
| 16% | 10 to 20 micron |
| 18% | 20 to 40 micron |
| 9% | 40 to 80 micron |

Sizes of particles

Heavy industrial dusts - up to 4000 micron (4mm) Fine road dust - 5 to 20 micron

Dense smoke carbons and cigarette smoke - 0.01 to 1 micron bacteria - 0.8 to 10 microns

Pollens - 5 to 80 micron

Mould spores - 3 to 15 microns

Viruses - 0.01 to 0.25 microns