

Particle size table

Substance	approximate range of particle diameters (microns)
Rain drops	500 - 5000
Natural mist	60 - 500
Natural fog	2 - 60
Pollens	10 - 100
Ground talc	0.5 - 50
Bacteria	0.3 - 35
Plant spores	10 - 35
Insecticide dusts	0.5 - 10
Stoker fly ash	10 - 8000
Pulverized coal, fly ash	1 - 50
Foundry dusts	1 - 1000
Cement dust	3 - 100
Metallurgical dust	0.5 - 100
Dust damaging to lungs	0.5 - 5
Oil smoke	0.1 - 1.0
Resin smoke	0.01 - 1.0
Tobacco smoke	0.01 - 1.0
Carbon black	0.01 - 0.3
Pigments (paints)	0.1 - 5
Viruses	0.003 - 0.05
Human hair	35 - 200

Conversion factors

Length

1 inch = 25.4 mm = 2.54 centimeters
 1 metre = 100 centimetres = 3.28 ft
 1 ft = 305 mm = 30.5 centimetres
 1 ft = 12 Inches

Area

1 square metre = 10.76 square feet
 1 square foot = 0.0929 square meters

Imperial - Metric

Inches x 25.4 = mm

Feet x 0.3048 = Metres/feet/min x 0.005 =
 Metres/sec

Square feet x 0.0929 = square metres

Cubic feet/min x 0.472 = Litres/sec

Inches water gauge x 249.089 = Pascals
 gauge

CFM x 0.472 = litres per second

Metric - Imperial

mm x 0.0394 = inches

Meters x 3.2808 = feet meters/sec x 197 =
 feet/min

Square meters x 10.764 = square

Litres/sec x 2.1186 = cubic feet/min

Pascals x 0.004 = inches water

m³ hr x 0.588 = CFM