Midwest Filter Source

A Division of Swico Inc.

FILTERS

Single Source Filtration Management

Compressed Air and Gas
HVAC, HEPA, and Dust Collection
Aqueous and Solvent Filtration
Hydraulic and Oil Filtration

Solutions for all Industries and Applications

www.midwestfiltersource.com

MFS
"Single Source Filtration Management"

Indiana: 219.931.1430 Illinois: 708.431.8585 Fax: 219.931.1412

MFS

General Applications Guide

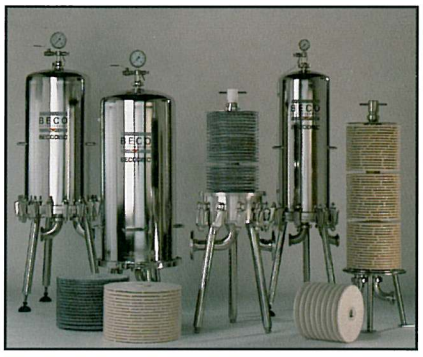
Application	Fluid	Filtration Method: Liquid Filtration Cartridges	Air Filtration Cartridges	Absorption - Air, Liquid	Adsorption - Air, Liquid	Filter/Sep. - Liquid	Air/Oil Sep. - Air (coalescing)	Liquid Bag Filters	Dust Collectors	HEPA filters - HVAC
Air Systems	Air		●	●	●		●		●	●
Air Craft Refuel Systems	Fuels	●		●	●	●		●		
Bulk Plants	Fuels	●		●		●		●		
Blowers (Low Pressure)	Lube Oil, Air	●							●	●
Circul. Oil Systems	Lube Oil	●			●			●		
Circuit Boards	Chemicals, Gas	●	●					●		●
Compact disc, CD-ROM	Chemicals, Gas	●	●					●		●
Compressors	Lube Oil, Air	●	●							
Compressed Air Systems	Lube Oil, Air	●	●		●		●			
Coolant Systems	Coolants	●						●		
Dairies	Air		●							●
EDM Machines	Hydr. Water	●						●		
Electrical Cables	Insul. Oil	●			●					
Engine Test Stands	Lube Oil, Air	●			●					
Food Processing	Various Liquids, Air	●	●					●	●	●
Fuel Systems	Fuels	●			●	●		●		
Fluid Couplings	Hydr. Oil	●		●						
Gas Turbines	Lube, Fuel, Air	●	●					●		
Heat Treating	Quench Oil	●			●					
Hydraulic Systems	Hydr. Oil	●		●	●					
Inkjet Systems	Liquid ink	●								
Instrument Air Systems	Air		●	●	●		●			
Lubrication Systems	Lube Oil	●			●					
Machine Shops	Lube, Hydr., Cool	●		●	●			●		
Marine Engines	Lube, Air, Fuel	●	●		●			●		
Paint Manufacturing	Var. Liquids, Air	●	●					●	●	
Plastic Injection Molding	Hydr. Oil	●								
Pharmaceutical, Bio-tech	Solvents, Water, Air	●	●			●		●		●
Pneumatic Equipment	Air		●		●		●			
Presses	Hydr. Oil	●			●					
Process Systems	Var. Liquids, Air	●	●	●	●	●		●	●	
Quenching Systems	Quench Oil	●						●		
Railroad Refuel	Deisel Fuel	●		●	●	●				
Refrigeration Systems	Lube Oil	●			●					
Stationary Engines	Lube, Air	●	●							
Steam Turbines	Lube Oils	●					●			
Steel Roll Stands	Lube Oil	●		●	●					
Sterile Filling, Venting	Water, Air	●	●			●	●			●
Stone Crushing	Lube, Hydr., Air	●	●						●	
Switch Gear (Electric)	Insul. Oil	●		●	●					
Transformers	Insul. Oil	●		●	●					
Vacuum Pumps	Lube, Exhaust Air	●	●			●				
Water Systems	Water, Air	●	●					●		

Air and Liquid Cartridges

Hydraulic Filter Interchange

Wound/Pleated Elements

Air Coalescing



Depth Filter Disks and Sheets

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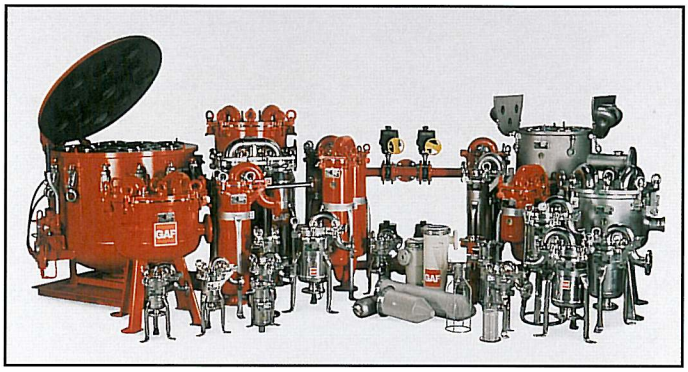
Midwest Filter Source, (MFS) a Div. of Swico Inc (Founded In 1989) has more than 55 years combined experience in air, liquid and gas filtration systems. A family owned business; Midwest Filter Source was formed to offer the highest quality filtration technology and products. As a single source supplier of filtration products and services, Midwest Filter Source can supply filtration equipment for new installations, plant upgrades, OEM replacements and custom filtration products for new OEM applications.

Dust Collector Filter Bags and Accessories

MFS added value services:

- Extensive cross-references of industrial filter elements and liquid filter bags as well as most Dust collection systems.
- Complete filter surveys for liquid and gas applications.
- Expert factory based technical backup to analyze your filtration application and to recommend the most appropriate filtration method.
- Laboratory analysis if required.
- Field services available for change out and retrofit of dust collection systems.

Please keep this brochure close by as a reference guide and contact Midwest Filter Source for all of your filtration needs.



Liquid Bag Filter Assemblies

Air/Gas Dryers
Nitrogen Gas Generators

Useful Formulas & Conversions

$$ACFM = \frac{SCFM \ x \ 14.7 \ x \ (460 + Operating \ temp. \ °F)}{(Operating \ \ pressure \ PSIG + 14.7) + 520}$$

$$SCFM = \frac{ACFM \ x \ (14.7 - Operating \ \ pressure \ PSIG) \ x \ 520}{14.7 \ x \ (460 + Operating \ temp. \ °F)}$$

To convert from lbs/min to SCFM:

$$SCFM = \frac{lbs/\min \ x \ 379}{Mol. \ wt. \ of \ \ gas \ involved}$$

$$Inlet \ velocity \ in \ FPM = \left(\frac{Inlet \ CFM}{Area \ of \ \ pipe} \right) x \ 144$$

$$PSI \ x \ 0.0689 = bar$$

$$PSI \ x \ 2.036 = IN. \ Hg$$

$$PSI \ x \ 51.75 = mm/Hg$$

$$PSI \ x \ 27.1 = IN. \ H_2O$$

$$PSI \ x \ 68.95 = mbar$$

$$°C = .555 \ (°F - 32)$$

$$°F = (1.8 \ x \ °C) + 32$$

Industrial HVAC Filters

Single Source Filtration Management

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Filtration Engineering Data

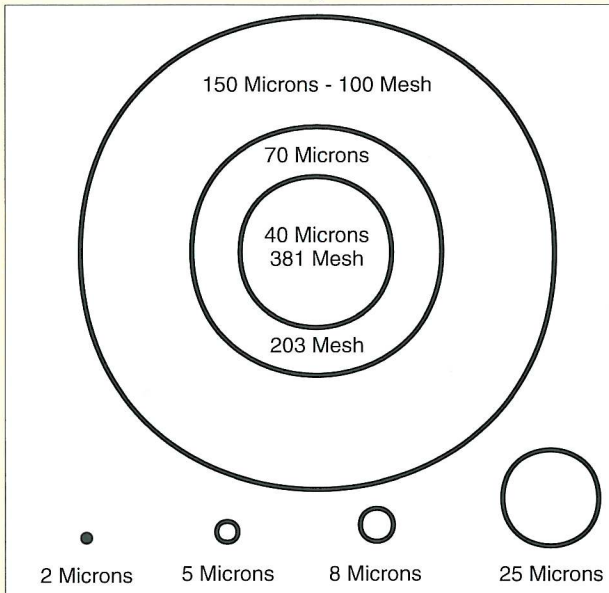
MFS

Mesh - Inch - Micron Conversion Chart

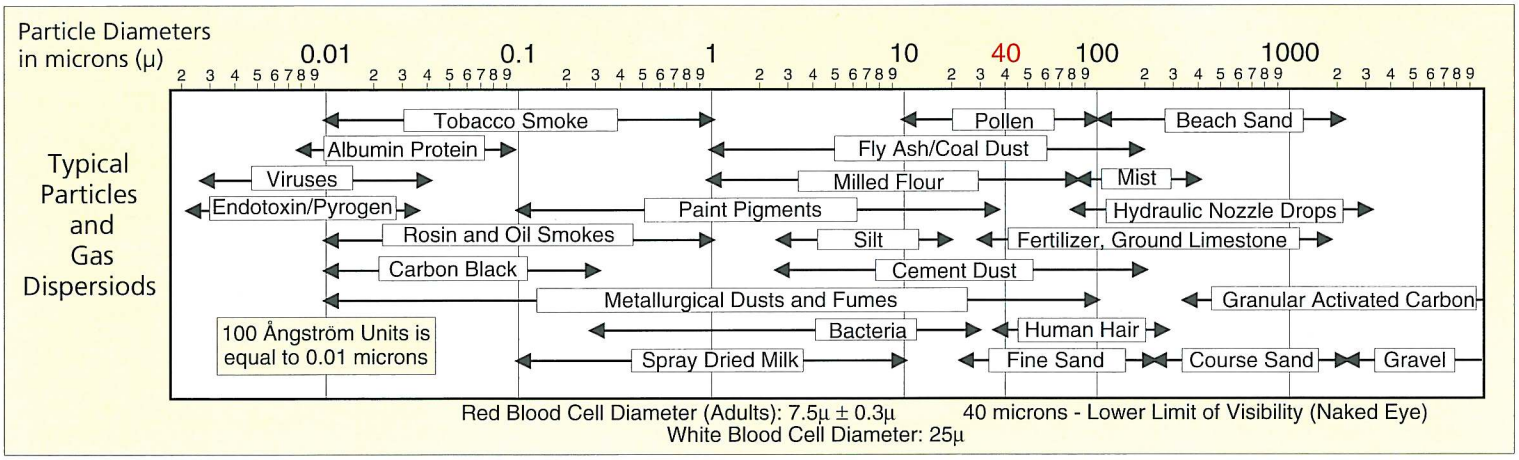
Meshes/Lineal Inch US and ASTM Std. Sieve No.	Actual Opening Inches	Actual Opening Microns
10	.075	1905
14	.051	1295
20	.034	864
30	.020	508
40	.015	381
50	.011	279
60	.009	229
70	.008	203
80	.007	178
100	.006	150
120	.0046	117
130	.0043	109
140	.0042	107
150	.0041	104
160	.0038	97
170	.0035	89
180	.0033	84
200	.0029	74
250	.0024	61
300	.0018	46
400	.0015	38
120x400	.0016	40
200x600	.0010	25
200x1400	.0004	10
325x2300	.0002	5

Relative Size of Particles (In Microns)

500x Magnification



1 inch	25.4 millimeters	25,400 microns
1 millimeter	.0394 inches	1,000 microns
1 micron	25,400 of an inch	.001 millimeters
1 micron	3.94 x 10-5	.000039 inches



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Your Account Representative

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