

## FILTER SIZING FACTORS FOR PRIMARY FILTER COLLECTORS

FILTRATION VELOCITY (Vf) BY TYPE OF COLLECTOR

Material (Dry Dust)	Tenkay Ft./Min	Ramtube Ft./Min	Max. Can Velocity Ft./Min	Bulk Density At Rest Lb./Cu.Ft.
Activated carbon	1.5	6	280	20
Adipic acid	1.7	7	320	40-50
Alumina	2	8	320	40-55
Aluminum dust	EXPLOSIVE - Do not use dry dust collector.			
Aluminum oxide	2	8	320	60-90
Ammonium phosphate	1.7	7	320	55-80
Asbestos	2*	8	280	20-40
Baking powder	2	9	280	40
Bauxite	2	8	320	45-75
Bronze powder	2	8	320	70-90
Calcium	1.5	6	280	30
Carbon, black	1	4	240	Oct-35
Carbon, Banbury mixer	1	4	280	20-40
Cement	2	8	360	65-95
Ceramic pigments	2	8	320	50-90
Charcoal	1.5	6	280	18-25
Chrome ore	2	9	360	125-140
Clay dust	2	9	320	50-70
Clay, kaolin	2	9	320	45-55
Coal, pulverized	2	8	280	35-50
Cocoa, chocolate	2	8	280	30-35
Coke	1.7	7	280	30-40
Corn flour	2	8	320	45-55
Cotton	2	8	280	15-30
Cosmetics	2	8	320	45-90
Dacron flakes	1.5	6	280	30-40
Diatomaceous earth	2	8	240	5-18
Dyes	1.7	7	320	25-40
Enamel frit	2.2	9	320	80-100
Epoxy powder	1.7	8	320	45-55
Feeds, grain	2	10	320	30-40
Feldspar	2	9	360	60-75
Fertilizer	2	8	320	35-55
Fiberglass, chopped strand	2	8	280	15-25
Flour	2	10	320	35-50
Fluorspar	2	8	360	85-110
Fly ash	1.7	7	320	35-65
Flyash, COHPAC secondary	2	10	320	35-65
Glass	1.5	6	320	65-105
Grain	2	8	320	35-40
Granite	2	8	360	80-100

\*Use Tenkay cartridge with wide pleat spacing for this application.

**FILTER SIZING FACTORS FOR PRIMARY FILTER COLLECTORS (Continued)**

<b>Material (Dry Dust)</b>	<b>Tenkay Ft./Min</b>	<b>Ramtube Ft./Min</b>	<b>Max. Can Velocity Ft./Min</b>	<b>Bulk Density At Rest Lb./Cu.Ft.</b>
Graphite	1.1	5	280	28-55
Gypsum	2	8	320	50-80
Iron ore	2	8	400	120-180
Iron oxide	2	8	320	75-95
Iron sulfate	1.5	6	320	60-85
Lampblack	1.5	6	240	35-45
Lead oxide	1.7	7	360	50-70
Leather dust	2*	8	280	15
Lime	2	8	320	35-60
Limestone	2	8	320	60-70
Manganese	1.7	7	320	70-80
Marble	2	8	360	80-95
Metallurgical fumes	1.5	6	240	20-Oct
Mica	2	8	280	13-30
Milk powder	2	8	320	15-35
Nylon flakes, powder	1.5	6	280	30-40
Oyster shell	2	8	320	50-80
Perlite	2	9	280	10-20
Phosphate rock, ground	2	9	360	60-90
Plastic pellets	2	8	360	30-45
Plastic powder and resin	1.7	7	320	25-45
Potassium carbonate	1.7	7	320	50-80
Quartz	2	8	320	85
Refractory dust	2	8	320	60-85
Rock dust	2	8	360	80-90
Rubber dust	1.5	8	320	25-50
Salt	2	8	320	50-85
Sand	2	8	360	90-120
Sandblast dust	2	8	320	80-90
Sawdust, dry wood	2*	10	280	10-25
Sawdust, fines	2*	8	240	10-20
Silica	2	8	360	80-95
Slate	2	8	280	80-100
Soap, detergent	2	8	280	15-35
Soda ash	2	9	320	50-65
Spices	2	10	320	30-50
Starch	1.7	7	320	25-50
Steel, machine dust	2	10	360	80-150
Sugar	2	8	320	40-60
Talc	2	9	320	35-45
Titanium dioxide	1.7	7	280	45-50
Tobacco, ground	1.5	12	320	10-30
Urea formaldehyde	1.7	8	280	35-45
Weld smoke	2.4	10	400	80-150
Wheat flour	2	10	280	30-45
Wood chips and dust	2*	10	320	15-35
Zinc, metallic dust	1.7	8	400	200
Zinc oxide	1.5	7	320	25-55
Zirconium oxide	1.5	7	360	70-85
Intake filter - compressed air	3	-	0	-

\*Use Tenkay cartridge with wide pleat spacing for this application.