

# DUST COLLECTOR SELECTION GUIDE

Referenced from: *Industrial Ventilation: A Manual of Recommended Practice - 21st Edition*

American Conference of Government Industrial Hygienists

KEY: O - Often, S - Seldom, N - Never

OPERATION	CONCENTRATION	PARTICLE SIZES	WET COLLECTOR	FABRIC COLLECTOR	CYCLONE
<b>CERAMICS</b>					
Raw Product Handling	light	fine	O	O	O
Fettling	light	fine to medium	S	O	S
Refractory Sizing	heavy	coarse	S	O	N
Glaze & Vitreous Enamel Spray	moderate	medium	O	O	N
<b>CHEMICALS</b>					
Material Handling	light to moderate	fine to medium	O	O	O
Crushing & Grinding	moderate to heavy	fine to coarse	O	O	O
Pneumatic Conveying	very heavy	fine to coarse	S	O	O
Roasters, Kilns, Coolers	heavy	mid-coarse	O	O	O
<b>COAL MINING AND POWER PLANT</b>					
Material Handling	moderate	medium	O	O	O
Bunker Ventilation	moderate	fine	S	O	S
Dedusting, Air Cleaning	heavy	medium to coarse	O	O	S
Drying	moderate	fine	O	S	N
<b>FLY ASH</b>					
Coal Burning - Chain Grate	light	fine	S	O	S
Coal Burning - Stoker Fired	moderate	fine to coarse	S	O	S
Coal Burning - Pulverized Fuel	heavy	fine	S	O	S
Wood Burning	varies	coarse	O	O	S
<b>FOUNDRY</b>					
Shakeout	light to moderate	fine	O	O	S
Sand Handling	moderate	fine to medium	O	O	N
Tumbling Mills	heavy	medium to coarse	O	O	N
Abrasive Cleaning	moderate to heavy	fine to medium	O	O	N
<b>GRAIN ELEVATOR, FLOUR &amp; FEED MILLS</b>					
Grain Handling	light	medium	S	O	O
Grain Dryers	light	coarse	S	O	S
Flour Dust	moderate	medium	S	O	O
Feed Mill	moderate	medium	S	O	O
<b>METAL MELTING</b>					
Steel Blast Furnace	heavy	varied	O	S	N
Steel Open Hearth	moderate	fine to coarse	O	S	N
Steel Electric Furnace	light	fine	S	O	N
Ferrous Cupola	moderate	varied	O	O	N
Non-ferrous Reverberatory	varied	fine	S	O	N
Non-ferrous Crucible	light	fine	S	O	N

OPERATION	CONCENTRATION	PARTICLE SIZES	WET COLLECTOR	FABRIC COLLECTOR	OTHER
<b>METAL MINING AND ROCK PRODUCTS</b>					
Material Handling	moderate	fine to medium	O	O	N
Dryers, Kilns	moderate	medium to coarse	O	O	N
Cement Rock Dryer	moderate	fine to medium	S	S	N
Cement Kiln	heavy	fine to medium	N	O	N
Cement Grinding	moderate	fine	N	O	N
Cement Clinker Cooler	moderate	coarse	N	O	N
<b>METAL WORKING</b>					
Production Grinding, Scratch Brushing, Abrasive Cutoff	light	coarse	S	O	O
Portable and Swing Frame	light	medium	S	O	S
Sanding	light to medium	fine	O	S	S
Buffing	light	varied	S	O	S
Tool Room	light	fine	O	S	S
Cast Iron Machining	moderate	varied	O	O	O
<b>PHARMACEUTICAL AND FOOD PRODUCTS</b>					
Mixers, Grinders, Weighing, Blending, Bagging, Packaging	light	medium	O	O	O
Coating Pans	varied	fine to medium	O	O	N
<b>PLASTICS</b>					
Raw Material Processing	varied	varied	S	O	O
Plastic Finishing	light to moderate	varied	S	O	S
<b>RUBBER PRODUCTS</b>					
Mixers	moderate	fine	O	O	S
Batchout Rolls	light	fine	O	S	S
Talc Dusting and Dedusting	moderate	medium	S	O	S
Grinding	moderate	coarse	O	O	O
<b>WOODWORKING</b>					
Woodworking Machines	moderate	varied	S	O	O
Sanding	moderate	fine	S	O	O
Waste Conveying, Hogs	heavy	varied	S	O	O