U.S. Air Filtration, Inc.

AIR TO MEDIA GUIDE

Dust Type	Explosive	Abrasive	Controlled Environment	Fire	A/C Ratio
Abrasive Blasting		√			
• Black Beauty		√			1.4
• All others		√			1.8
Activated carbon					2.5
Alfalfa	√			√	3.0
Alumina					2.5
Ambient air filtration					3.5
Arc washing (Gouging)				√	*
Asbestos					3.3
Baking powder			√		2.5
Barley (see Grain)				√	
Bauxite		√			2.0
Beet pulp	√	√		√	–
Bentonite		√	√		2.0
Beryllium					2.0
Boric acid					1.8
Bran	√			√	3.5
Brazing				√	2.2
Buffing & polishing				√	3.5*
Calcium carbonate					1.8
Carbon black	√			√	
• Fused	√			√	1.1
• Sintered	√			√	1.9
Cardboard					3.5
Cement		√			1.8
Ceramic		√	√		1.8
Chaff, grain	√	√		√	3.5
Chromium					1.5
Clay (& Brick & Marble)		√			1.8
Coal	√	√		√	1.8
Cocoa	√		√	√	1.8
Coffee	√			√	1.8
Coke	√	√		√	1.7
Composites					3.5
Corn meal	√			√	3.0
Corn starch	√		√	√	2.5
Corn sugar				√	2.0
Cutting				√	
• Laser				√	
Metal				√	1.1
Non-metal				√	1.1
• Oxyacetylene				√	1.4-1.7
• Plasma				√	1.1

Dust Type	Explosive	Abrasive	Controlled Environment	Fire	A/C Ratio
Detergents	√		√	√	2.2
Diatomaceous earth					2.5
Dyes	√			√	1.3
Fertilizer	√		√	√	2.2*
Fiberboard	√			√	3.0
Fiberglass					3.5
Flour	√		√	√	2.0
Fly ash		√			1.8
Frit		√			1.8
Furnaces					*
Grain	√			√	
• Corn	√			√	3.5
• Rice		√		√	3.5
Granite		√			2.0
Graphite				√	2.0
Grinding					
• Aluminum	√			√	2.0
• Bake shoe				√	3.5
• Cast iron		√		√	1.8
• Composites					3.5
• Rubber				√	3.8
• Steel		√		√	2.0
• Titanium		√		√	1.0
Gypsum					2.5
Iron oxide (Rust)					1.8
Kaolin					1.5
Lead oxide					1.1
Lead powder					1.5
Leather	√			√	3.5
Lime					2.5
Lime, hydrated					1.8
Limestone					2.5
Lignite	√			√	2.0
Malt	√		√	√	3.0
Meal	√			√	3.0
Metal, powdered					2.5
Metallizing				√	
•Electric arc spray				√	.04
• Plasma arc spray				√	1.2
• Powder flame spray				√	1.2
• Wire flame spray				√	1.2

* Check with Facility

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Dust Type	Explosive	Abrasive	Controlled Environment	Fire	A/C Ratio
Metallic fume					1.1
Mica (Rock)	√		√	√	2.0
Milk solids (Powders)					3.0
Oyster shell		√			1.8
Paint pigments	√			√	2.0
Paper	√			√	3.5
Pharmaceutical	√		√	√	
• Dry Powder	√		√	√	2.0
• Coating	√		√	√	2.0
Plaster			√		2.5
Powder coating	√	√		√	
• Black	√	√		√	1.0
• White & colors	√			√	2.5
• Teflon	√			√	1.8
Quartz		√			3.0
Rice	√	√		√	2.0
Rock, mineral					3.0
Rubber	√			√	1.8
Rye (Grain)	√			√	3.5
Salicylic Acid	√			√	1.8
Salt (Mineral)		√	√		3.5
Sand (Non foundry)		√			2.2
Sand (Foundry)		√			2.0
Selenium					1.8
Shale (Rock)		√			2.0
Silica		√			2.5
Silica, fumed					0.8
Silicates					2.2
Slate (Rock)		√			2.0
Soapstone					2.2
Soda ash		√			2.0

Dust Type	Explosive	Abrasive	Controlled Environment	Fire	A/C Ratio
Soldering (Welding)					1.8
Soybean (Grain)	√			√	3.0
Soybean meal	√			√	3.0
Starch	√		√	√	2.4
Surgical starch	√		√	√	1.0
Sugar (Glazed bags)	√		√	√	2.0
Talc					2.0
Talcum powder					2.0
Titanium (see application)	√	√		√	1.8
Titanium dioxide					2.2
Tobacco	√			√	3.0
Toner	√			√	1.2
Weld fume				√	1.8
• Source capture				√	1.7
Laser welding				√	1.7
Plasma arc welding	√			√	2.2
All others				√	3.5
• Ambient				√	2.1
Laser welding				√	2.1
Plasma arc welding				√	2.8
All others				√	2.2
Weld fume, soldering				√	3.0
Wheat (Grain)	√			√	
Woodworking	√			√	
• Sanding	√			√	4.0
• High speed cutting	√			√	4.0
• Low speed cutting & paning				√	-

Controlled Environment = 70° F (21° C). 40% RH
Explosive = Vents Required
Abrasive = AR Inlets Required
Fire = Sprinkler Header / Fire Media

* Check with Facility

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