U.S. Air Filtration, Inc.

AIR TO MEDIA GUIDE

Dust Type	Explosive	Abrasive	Controlled Environment	Fire A/C Ratio	Rate
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	Rate
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

Air to Media Guide Cont'd

Dust Type	Explosive	Abrasive	Controlled Environment	Fire	A/C Ratio Rate
Metallic fume					1.1
Mica (Rock)	✓		✓	✓	2.0
Milk solids (Powders)					3.0
Oyster shell		✓			1.8
Paint pigments	✓			✓	2.0
Paper	✓			✓	3.5
Pharmaceuticals	✓		✓	✓	
• 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 Rate
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				✓	
• Source capture				✓	1.8
Laser welding				✓	1.7
Plasma arc welding				✓	1.7
All others				✓	2.2
• Ambient				✓	3.5
Laser welding				✓	2.1
Plasma arc welding				✓	2.1
All others				✓	2.8
Weld fume, soldering				✓	2.2
Wheat (Grain)	✓			✓	3.0
Woodworking	✓			✓	
• Sanding	✓			✓	4.0
• High speed cutting	✓			✓	4.0
• Low speed cutting & planing				✓	–

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

* Check with Facility