



White Aluminum Oxide Blasting

<i>Finishing</i>	<i>Cleaning / Removal</i>	<i>Peening</i>	<i>Surface Profile (Etch)</i>	<i>Working Speed</i>	<i>Recyclability</i>	<i>Probability of Metal Removal</i>	<i>Hardness MOH Scale</i>	<i>Bulk Density (lb/cu ft)</i>	<i>Mesh Size</i>	<i>Typical Blast Pressure</i>	<i>Shape</i>
Yes	Yes	No	Yes	High	M-High	M-High	8-9	125	20-600	40-90	◇

Are you concerned about contaminants left behind when blasting or coating a sensitive work piece? Are you searching for a high purity, low iron, consistently controlled white aluminum oxide for your blasting or coating application?

Delicate blasting and coating environments such as medical, aerospace, and thermal sprays require material that is manufactured with purity as top priority. Washington Mills has been producing DURALUM® Special White (our trademark white fused alumina) for the industrial blasting markets for over 50 years. We retain total control over the entire manufacturing process of DURALUM® Special White from start to finish. We carefully select the raw materials that we use and closely monitor the furnace process in order to produce the highest quality white fused alumina Duralum® Special White is a virgin fused white aluminum oxide. It is a friable, high purity, medium density abrasive.



Applications:

Duralum® Special White is designed for general industrial use in operations such as lapping, polishing, refractory coating for investment cast shells, decorative non-skid tile, and pressure blasting. It is used where a high purity and/or highly friable abrasive is desired

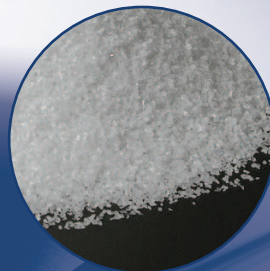
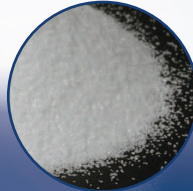
GRAIN SIZES AVAILABLE

12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, and 220

POWDER SIZES AVAILABLE

240, 280, 320, 400, 500, 600, 800, 1000, 1200, F, FF, FFF

DURALUM® SPECIAL WHITE



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DESCRIPTION

DURALUM® SPECIAL WHITE is a virgin fused white aluminum oxide. It is a friable, high purity, medium density, abrasive.

APPLICATIONS

DURALUM® SPECIAL WHITE is a white aluminum oxide designed for general industrial use in operations such as lapping, polishing, refractory coating for investment cast shells, decorative non-skid tile, and pressure blasting. It is used where a high purity and/or highly friable abrasive is desired.

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃ (by difference)	99.77%
SiO ₂	0.02%
Fe ₂ O ₃	0.01%
Na ₂ O	0.20%

GRAIN SIZES AVAILABLE

8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, and 240

POWDER SIZES AVAILABLE

240, 280, 320, 360, 400, 500, 600, 800, 1000, 1200, F, FF, and FFF

TYPICAL PHYSICAL PROPERTIES

Crystallography	Alpha alumina, in a hexagonal crystal
Color	White
Specific Gravity	3.96
Knoop ₁₀₀ Hardness	2000
Shape	Blocky, with sharp edges
Grading (Grain)	ANSI B74.12-2001, Table 2 OR FEPA 42-1:2006
Grading (Powder)	ANSI B74.10-2001 OR FEPA 42-2:2006
Bulk Density (Grain)	ANSI B74.4-1992 (R2007)

TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
8	1.73	20	1.76	54	1.75	100	1.64
10	1.74	24	1.76	60	1.72	120	1.62
12	1.75	30	1.77	70	1.70	150	1.60
14	1.75	36	1.77	80	1.68	180	1.57
16	1.75	46	1.78	90	1.66	220	1.54

This product information is NOT a specification. It is offered in good faith only as a general description of the product. **Washington Mills makes no warranty of merchantability or of fitness for any particular purpose.** The product chemistry and other characteristics may vary or contain trace elements not specifically listed. If your intended application for this product is so critical that relatively minor variations in chemistry or physical properties could cause problems or damage to your process or product, please contact our office for further assistance.