

GRAYSTAR[★]LLC

Ceramic Minerals and Specialty Materials

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Technical Data Sheet

Product: White Fused Aluminum Oxide Powders

Description: A high purity abrasive electrically fused from Bayer processed alumina. This material is classified to exacting standards for use in various applications where higher purity levels and reduced iron content are required.

Applications: White aluminum oxide powders are used for micro blasting, precision lapping, fine grit grinding wheels, thermal coatings, polishing compounds, etc.

Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	99.24%
Titanium Dioxide (TiO ₂)	0.02%
Silicon Dioxide (SiO ₂)	0.02%
Iron Oxide (Fe ₂ O ₃)	0.09%
Sodium Oxide (Na ₂ O)	0.60%
Others	0.03%

Physical Characteristics:

Crystal Form:	Alpha-Alumina
True Density:	3.95 g/cm ³
Hardness:	Mohs 9.0
Melting Point:	2000°C
Color:	White

Test Methods:

Sizing: FEPA Standard 42-GB-1984-R1993
JIS R 6001-1987
Micron sizes based on Coulter Multisizer

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY
44lb and 55 lb. paper bags
400 lb. fiber drums grade sizes F240 – F500
275 lb. fiber drums grade sizes F600 – F800
2200 lb. supersacks
Plastic pails, etc. for a surcharge (SC only)

Products Available:

FEPA F240 - F1200
JIS #240 - #8000
Micron Sizes 50.0 um – 1.0 um
Custom Sizes

Certifications Available:

FEPA
JIS
Customer Specific

FEPA F Standard

Size	D3% Max.	D50%	D94% Min.
240	70	42.5-46.5	28
280	59	35.0-38.0	22
320	49	27.7-30.7	16.5
360	40	21.3-24.3	12.0
400	32	16.3-18.3	8
500	25	11.8-13.8	5
600	19	8.3-10.3	3
800	14	5.5-7.5	2
1000	10	3.7-5.3	1
1200	7	2.5-3.5	1(80%)

Manufacturers and Distributors of Abrasive Materials