GRAYSTAR LLC

A Manufacturer and Distributor of
Abrasive Materials and Specialty Products

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Technical Data Sheet

Product: White Fused Aluminum Oxide **Powders (Microgrits)**

Description: White aluminum oxide is a high purity abrasive electrically fused from Bayer processed alumina. This material is classified to exacting standards for 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_2O_3)	99.24%
Titanium Dioxide (TiO_2)	0.02%
Silicon Dioxide (SiO_2)	0.02%
Iron Oxide (Fe_2O_3)	0.09%
Sodium Oxide (Na_2O)	0.60%
Others	0.03%

Products Available:
FEPA F240 – F1200
JIS #240 - #8000
Micron/Optical sizes 50.0um – 1.0 um

Physical Characteristics:

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

Certifications Available:
FEPA
JIS
Agency and Mil-specs

Sizing Test Methods:
FEPA Standard 42-2: 2006
JIS R 6001 - 1998
Micron sizes based on Coulter Multisizer

Packaging & Shipping:
Warehousing in Bluffton, SC and Niagara Falls, NY
44 lb. 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, sealed bags, etc. for a surcharge (SC only)

FEPA F Standard – Powders/Microgrits

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
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%)

9/16/09