



Henan Silk Road Abrasives & Tools



TECHNICAL DATA SHEET *Brown Aluminum Oxide*

Typical Chemistry

	Macrogrits	Microgrits
Aluminum Oxide (Al ₂ O ₃)	95.87%	95.20 %
Titanium Oxide (TiO ₂)	2.56%	2.60%
Silicon Dioxide (SiO ₂)	0.90%	1.20%
Iron Oxide (Fe ₂ O ₃)	0.22 %	0.45%
Others	0.25%	0.35%

Test Methods

Macrogrit Sizing:	ANSI B74.12 Table ANSI B74.12 Table 2 Customer Specific Standards
Microgrit Sizing:	FEPA F Standard 42-2:2006 FEPA P Standard 43-2:2006 JIS R 6001-1987 Custom Sizes Available

Physical Characteristics

Crystal Form	Alpha - Alumina
True Density	3.95 g/cm ³
Melting Point	2000°C
Color	Brown
Hardness	Knoop (100): 2050 Mohs: 9.0

Certifications Available

ANSI and FEPA
Agency & Mil-Specs (such as A-A-59316 & MIL-A-22262B)
Pratt & Whitney, Rolls Royce, Praxair, Stryker, etc.

Description:

Silk Road Abrasives manufactures Brown Fused Alumina through high-temperature melting of alumina. It exhibits exceptional traits, including high purity, excellent crystallization, strong flowability, low linear expansion, and outstanding corrosion resistance. These remarkable properties position it as a top-notch abrasive and refractory material, serving diverse industries' requirements.

Applications:

Silk Road Abrasives's Brown Aluminum Oxide Macrogrits are used in all types of bonded and coated abrasive applications for ferrous and normal alloy steels. It is also used in a myriad of refractory and general industrial applications. Silk Road Abrasives's Brown Aluminum Oxide Microgrits are used for precision lapping, micro-blasting, fine grit bonded and coated abrasives applications, thermal coatings, and polishing compounds.

<https://www.silkroadabrasives.com/>

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