



Henan Silk Road Abrasives & Tools



TECHNICAL DATA SHEET *White Aluminum Oxide*

Typical Chemistry

	Macrogrits	Microgrits
Aluminum Oxide (Al ₂ O ₃)	99.75 %	99.63 %
Silicon Dioxide (SiO ₂)	0.06 %	0.09 %
Sodium Dioxide (Na ₂ O)	0.09 %	0.16 %
Iron Oxide (Fe ₂ O ₃)	0.04 %	0.06 %

Physical Characteristics

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

Test Methods

Macrogrit Sizing: ANSI B74.12
Customer Specific Standards

Microgrit Sizing: FEPA F Standard 42-2:2006
FEPA P Standard 43-2:2006
JIS R 6001-1987
Custom Sizes Available

Certifications Available

NSI and FEPA (Macrogrits); FEPA and JIS (Microgrits)
Agency & Mil-Specs

Description:

Silk Road Abrasives produces White Fused Alumina (WFA) by melting high-quality alumina powder at temperatures above 2000°C. It is then cooled and ground into a fine white powder consisting mainly of α-Al₂O₃ crystals. WFA is widely used in various industries due to its exceptional properties and suitability for applications requiring high purity and low iron content.

Applications:

Silk Road Abrasives's White Aluminum Oxide macrogrits are used in surface grinding, external and internal cylindrical grinding, creep-feed grinding of low or unalloyed steel. General industrial applications include pressure blasting, microderm abrasion, lapping, anti-skid, and refractories.

Silk Road Abrasives's White Aluminum Oxide microgrits are used for precision lapping, micro blasting, fine grit bond and coated applications, thermal coatings, polishing compounds, and more.

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