

GRAYSTAR LLC

*A Manufacturer and Distributor of
Abrasive Materials and Specialty Products*

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Technical Data Sheet

Product: Alumina Zirconia (25%) - ZF/ZS Alundum

Description: Aluminum Zirconia-25% (ZF or ZS Alundum) is a hard, very tough, sharp abrasive. It is produced by fusing zircon sand and alumina at about 1900°C.

Applications: Alumina Zirconia is used primarily for producing large grinding wheels for foundry snagging and track grinding. It is also an excellent blasting material for granite and other materials where long life is required.

Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	75.0%
Zirconium Oxide (ZrO ₂)	23.0%
Titanium Dioxide (TiO ₂)	0.40%
Silicon Dioxide (SiO ₂)	0.30%
Iron Oxide (Fe ₂ O ₃)	0.30%
Sodium Oxide (Na ₂ O)	0.08%
Calcium Oxide (CaO)	0.10%
Magnesium Oxide (MgO)	0.03%
Sulfur (S)	0.06%

Physical Characteristics:

Crystal Size:	17 Microns
True Density:	4.60 g/cm ³
Hardness:	Knoop 1600, Mohs 9.0
Melting Point:	1900°C
Loose Pack Density:	1.985 – 2.380 g/cm ³
Bulk Density Range:	132 – 159 lbs/ft ³

ANSI Test Methods:

Chemistry:	B74.14
Sizing:	B74.12
Bulk Density:	B74.4

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY
400 lb. fiber drums (grade sizes 8 – 120)
2000 lb. supersacks
Plastic pails, etc. for a surcharge (SC only)