

GRAYSTAR LLC

A Manufacturer and Distributor of
Abrasive Materials and Specialty Products

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Technical Data Sheet

Product: NorZon® Alumina Zirconia (40%) - NZ Alundum

Description: NZ Alundum /Aluminum Zirconia (40%) is a hard, very tough, sharp abrasive. It is produced by fusing zircon sand and alumina at about 1900°C.

Applications: NorZon® is used for both coated abrasive products and organic bonded grinding wheels.

Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	60.0%
Zirconium Oxide (ZrO ₂)	39.0%
Titanium Dioxide (TiO ₂)	0.25%
Silicon Dioxide (SiO ₂)	0.35%
Iron Oxide (Fe ₂ O ₃)	0.25%
Sodium Oxide (Na ₂ O)	0.03%
Calcium Oxide (CaO)	0.09%
Magnesium Oxide (MgO)	0.02%

Physical Characteristics:

Crystal Size:	12 Microns
True Density:	4.60 g/cm ³
Hardness:	Knoop 1600, Mohs 9.0
Melting Point:	1900°C
Loose Pack Density:	1.90 – 2.30 g/cm ³
Bulk Density Range:	126 – 146 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)