



GNP Ceramics, LLC

Precision Calcined Alumina



Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	99.59%
Silicon Dioxide (SiO ₂)	0.03%
Iron Oxide (Fe ₂ O ₃)	0.03%
Sodium Oxide (Na ₂ O)	0.35%

Physical Properties:

Crystal Form:	Monocrystalline Alpha Alumina
Shape:	Hexagonal Platelets
Hardness:	Knoop 2100, Mohs 9
pH:	7.5-11
Specific Gravity:	3.95g/cm ³
Melting Point C:	2000° C

Sizing available in microns:

1, 3, 5, 7, 9, 12, 15, 18, 20, 25, 30, and 40

- Suspension treatment available for water and oil based lapping applications.

Technical Data

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Description:

GNP Ceramic's Calcined alumina is aluminum oxide that has been heated at temperatures in excess of 1,050° C (1,922° F) to drive off nearly all chemically combined water. In this form, alumina has great chemical purity, extreme hardness (9 on the Mohs hardness scale, on which diamond is 10), high density, and a high melting point (slightly above 2,000° C [3,632° F]).

Applications for surface finishing:

GNP Ceramic's applications are widespread, which include Precision optics, Piezo electronics, Precision bearings, Optical glass, Semi-conductor quartz, Stainless steel, Gallium Arsenide, and Germanium

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Manufacturers and Distributors of Premium Ceramic Materials

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