



GNP Graystar

Specialty Materials



TECHNICAL DATA SHEET

Alumina Tri-Hydrate (ATH)

Typical Chemistry

Aluminum Hydroxide (Al(OH) ₃)	99.6 %
Silicon Dioxide (SiO ₂)	0.005 %
Iron Oxide (Fe ₂ O ₃)	0.007 %
Total Sodium Oxide (Na ₂ O)	0.24 %
Soluble Sodium Oxide (Na ₂ O)	0.03 %
Loss on Ignition (1000°C)	34.6 %

Typical Physical Properties

Screen Analysis on 325 mesh:	0.1 %
through 325 mesh:	99.9 %
Less than 10 Microns	53 %
Median Particle Diameter:	9 Microns
BET Surface Area*:	2 m ² /g
Free Moisture @ 105°C:	0.3 %
Specific Gravity:	2.42 g/cm ³
Bulk Density, Loose:	0.65 g/cm ³
Bulk Density, Packed:	1 g/cm ³
TAPPI Brightness**:	89
Oil Absorption***:	28 ml

* As measured with Micromeritics Tristar surface analyzer (BET)

** TAPPI Brightness measured with the Hunterlab Colorimeter

*** Oil absorption, ml, boiled linseed oil per 100 gm filler

Description:

GNP Graystar's ATH has a unique particle size distribution that provides the best possible combination of viscosity, flame, electrical, and molding properties that can be derived from an ATH filler. A closely controlled top size with a large super fine fraction yields rapid dispersion in resin. Excellent mold flow and wet-out characteristics result in superior surface profile, minimal porosity, even pigmentation, and excellent filler and reinforcement distribution throughout the molded part.

Applications:

GNP Graystar's ATH was developed especially for SMC, BMC, resin injection, and high solids coatings.

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