GNPGraystar
Specialty Materials
AN ISO 9001 CERTIFIED COMPANY

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_2O_3)	0.007 %
Total Sodium Oxide (Na_2O)	0.24 %
Soluble Sodium Oxide (Na_2O)	0.03 %
Loss on Ignition (1000°C)	34.6 %

Typical Physical Properties

Screen Analysis on 325 mesh: through 325 mesh:	 0.1 % 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 absoprtion, ml, boiled linseed oil per 100 gm filler*

Description:

GNPGraystar'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 faction 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:

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

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