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## Micral® 916 ALUMINUM TRIHYDRATE (ATH)

### DESCRIPTION

Micral® 916 is a high surface area alumina trihydrate products with a very precise, ultrafine particle size distribution. Features and benefits include: a lower cost replacement for precipitated ATH; lower soluble soda and free moisture content; improved handling properties; dependable delivery; long-term availability; exceptional brightness; excellent suspension; an economical halogen-free smoke suppressor/flame retardant.

Applications include wire and cable insulation, injection-molded polyolefins, coatings adhesives, rubber goods, paper filler and coating, PVC, EPDM, EPR, ABS, XLPE and compression molded Thermosets. A complete range of surface modifications is available to aid processing and enhance physical properties. These include silanes, stearates and wetting agents. Technical service is available.

### TYPICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	0.005
Fe <sub>2</sub> O <sub>3</sub> , %	0.007
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.060
Loss on ignition (1000°C), %	34.6
Free Moisture (105°C), %	0.95

### TYPICAL PROPERTIES

% through 325 mesh	100
Median Particle Diameter, microns	1.25
Surface Area, m <sup>2</sup> /gm *	19.5
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density, loose (gm/cm <sup>3</sup> )	0.4
Bulk Density, packed (gm/cm <sup>3</sup> )	0.70
Oil Absorption**	46
TAPPI Brightness***	94.5

\* As measured with a Quantachrome monosorb surface area analyzer (BET)

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

\*\*\* TAPPI Brightness measured with a Hunterlab Colorimeter