

Micral[®] 916

Aluminum Hydroxide (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) ₃ , %	99.6
SiO ₂ , %	0.005
Fe ₂ O ₃ , %	0.007
Na ₂ O (total), %	0.2
Na ₂ 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 ² /gm *	19.5
Specific Gravity (gm/cm ³)	2.42
Bulk Density, loose (gm/cm ³)	0.4
Bulk Density, packed (gm/cm ³)	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