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SB-805

Aluminum Hydroxide (ATH)

DESCRIPTION

SB-805 ATH is a flame retardant and smoke suppressant. It is a low surface area, fine particle-sized product, with very low +325 mesh fraction. SB-805 has precise particle size distribution, low absorbed water and low soluble soda content.

When compared to precipitated fine particle sized alumina trihydrate, SB-805 has significantly lower oil absorption which translates to reduced plasticizer demand and lower compound viscosity.

Excellent results have been obtained with SB-805 in closed cell foam applications, particularly where moisture sensitive blowing agents are used. The controlled fine particle size distribution is beneficial in maintaining controlled cell structure.

Other applications include open cell foam, wire and cable insulation and jacketing, injection molded and extruded polyolefins 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.

Chemical Property	Unit	Typical Value
$Al(OH)_3$	%	99.6
SiO_2	%	0.005
Fe_2O_3	%	0.007
Na_2O (total)	%	0.24
Na_2O (soluble)	%	0.05
Loss on Ignition (1000°C)	%	34.6

Physical Property	Unit	Typical Value
Screen Analysis		
on 325 Mesh	%	0.01
through 325 Mesh	%	99.99
% on less than 10 microns	%	96
Median Particle Diameter	Microns	2.6
BET Surface Area*	m^2/g	5
Free Moisture @105ºC	%	0.5
Specific Gravity	gm/cm^3	2.42
Bulk Density, loose	gm/cm^3	0.4
Bulk Density, packed	gm/cm^3	0.86
TAPPI Brightness**		93
Oil Absorption***	ml	34

* As measured with Micromeritics Tristar surface analyzer (BET)
** TAPPI Brightness measured with the Hunterlab Colorimeter
*** Oil absorption, ml, boiled linseed oil per 100 gm fill