

SB-432

Aluminum Hydroxide (ATH)

DESCRIPTION

SB-432 ATH developed especially for SMC, BMC, resin injection and high solids coatings, 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.

Chemical Property	Unit	Typical Value
Al(OH) ₃	%	99.6
SiO ₂	%	0.005
Fe ₂ O ₃	%	0.007
Na ₂ O (total)	%	0.24
Na ₂ O (soluble)	%	0.03
Loss on Ignition (1000°C)	%	34.6

Physical Property	Unit	Typical Value
Screen Analysis		
on 325 Mesh	%	0.1
through 325 Mesh	%	99.9
% on less than 10 microns	%	53
Median Particle Diameter	Microns	9
BET Surface Area*	m ² /g	2
Free Moisture @105°C	%	0.3
Specific Gravity	gm/cm ³	2.42
Bulk Density, loose	gm/cm ³	0.65
Bulk Density, packed	gm/cm ³	1
TAPPI Brightness**		89
Oil Absorption***	ml	28

* 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