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## SB-122 ALUMINUM HYDROXIDE (ATH)

### DESCRIPTION

SB-122 is a coarse, mechanically ground ATH that provides low cost flame retardant and smoke suppression in various plastics and rubber applications. SB-122 is used in applications where low viscosity of highly filled compounds is required.

A complete range of surface modifications are 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) <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)	%	0.24
Na <sub>2</sub> O (soluble)	%	0.25
Loss on Ignition (1000°C)	%	34.6

Physical Property	Unit	Typical Value
Screen Analysis		
on 325 Mesh	%	15
through 325 Mesh	%	85
% on less than 10 microns	%	25
Median Particle Diameter	Microns	18.5
BET Surface Area*	m <sup>2</sup> /g	1.5
Free Moisture @105°C	%	0.2
Specific Gravity	gm/cm <sup>3</sup>	2.42
Bulk Density, loose	gm/cm <sup>3</sup>	0.8
Bulk Density, packed	gm/cm <sup>3</sup>	1.2
TAPPI Brightness**		86
Oil Absorption***	ml	21

\* As measured with a Micromeritics Tristar surface area analyzer (BET)

\*\* TAPPI Brightness measured with a Hunterlab Colorimeter

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

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