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# SB-36

## ALUMINUM HYDROXIDE (ATH)

### DESCRIPTION

SB-36 is a coarse, mechanically ground ATH used to suppress flame and smoke in applications such as latex, vinyl and urethane compounds.

Chemical Property	Unit	Typical Value
Al(OH) <sub>3</sub>	%	99.6
SiO <sub>2</sub>	%	0.007
Fe <sub>2</sub> O <sub>3</sub>	%	0.007
Na <sub>2</sub> O (total)	%	0.24
Na <sub>2</sub> O (soluble)	%	0.018
Loss on Ignition (1000°C)	%	34.6

Physical Property	Unit	Typical Value
Screen Analysis		
on 325 Mesh	%	32.5
through 325 Mesh	%	67.5
% on less than 10 microns	%	22
Median Particle Diameter	Microns	25
BET Surface Area*	m <sup>2</sup> /g	0.9-1.1
Free Moisture @105°C	%	0.13
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>	1.49
TAPPI Brightness**		39.5
Oil Absorption***	ml	16

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

\*\* TAPPI Brightness measured with a Hunter Lab Colorimeter

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