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# HN-36

## Alumina Trihydrate

### DESCRIPTION

HN-36 is a halogen-free, medium-coarse particle size ATH product that provides low cost flame retardant and smoke suppression in a variety of applications. The particle size distribution is specifically designed for low viscosity, high filler loading levels, and excellent processing characteristics, up to 200°C.

### APPLICATIONS

HN-36 is recommended for rubber goods, compression molded thermosets, coatings, adhesives, latex, vinyl and urethane compounds and carpet backings.

**PHYSICAL FORM:** White powder  
**GENERIC TYPE:** Aluminum Hydroxid

**MORPHOLOGY:** Hexagonal Platelets  
**CAS No.:** 21645-51-2

### TYPICAL CHEMICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	<0.04
Fe <sub>2</sub> O <sub>3</sub> , %	<0.02
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.02
Free Moisture (TGA), 105° C, %	0.14

### TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% < 150 micron	100.0
% < 45 micron	77.1
% < 10 micron	36.2
Median Particle Diameter, microns	19
Loss on ignition, 550° C, %	34.5
Surface Area BET (m <sup>2</sup> /gm)	1.40
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density- packed (gm/lt.)	1200
Brightness Ry	93
CIELAB, L*	97
Moh's Hardness	3.0
Electrical Conductivity, µS/cm	<130
Oil Absorption, ml/100gm	21

### PACKAGING & STORAGE

25 kg paper bag, 1000 kg pallet

The product should be stored under dry and clean conditions in its original packing. The moisture content may increase if not stored under dry conditions.