



# HN-100 Alumina Trihydrate

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## DESCRIPTION

HN-100 is a halogen-free, very coarse particle size alumina trihydrate product that provides low cost flame retardant and smoke suppression in a variety of applications. It can be filled at very high loadings and has excellent processing characteristics, up to 200°C.

## APPLICATIONS

HN-100 is recommended for rubber goods, compression molded thermosets, adhesives, latex, vinyl and urethane compounds and carpet backings.

**PHYSICAL FORM:** White powder  
**GENERIC TYPE:** Alumina trihydrate

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

## TYPICAL CHEMICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	<0.01
Fe <sub>2</sub> O <sub>3</sub> , %	<0.02
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.2
Free Moisture (TGA), 105° C, %	max 0.20

## TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% < 90 micron	60
% < 45 micron	20
Median Particle Diameter, microns, (Sedigraph 5100)	75
Median Particle Diameter, microns, (Laser)	100
Loss on ignition, 550° C, %	34.5
Surface Area BET (m <sup>2</sup> /gm)	0.2
Oil Absorption, ml/100gm	18
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Brightness Ry	90
CIELAB, L*	95
Moh's Hardness	3.0

## 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.

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Revised 12/11