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# HN-100 Alumina Trihydrate

### 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: GENERIC TYPE:	White powder Alumina trihydrate	MORPHOLOGY: CAS No.:	Hexagonal Platelets 21645-51-2	
TYPICAL CHEMICAL ANALYSIS				
AI(OH)3, %		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), 1	05° C, %	max 0.20		

## TYPICAL PHYSICAL PROPERTIES

Screen Analysis		
% < 90 micron	60	
% < 45 micron	20	
Median Particle Diameter, microns, (Sedigraph 5100)		
Median Particle Diameter, microns, (Laser)		
Loss on ignition, 550° C, %		
Surface Area BET (m <sup>2</sup> /gm		
Oil Absorption, ml/100gm		
Specific Gravity (gm/cm <sup>3</sup> )		
Brightness Ry		
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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