

Martinswerk GmbH  
Kölner Straße 110  
D-50127 Bergheim  
phone: +49-2271-902-0  
e-mail: hubermaterials@huber.com

# HN-532

## Alumina Trihydrate

### DESCRIPTION

HN-532 is a halogen-free, very fine 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-532 is recommended for spray-up or hand lay-up FRP applications, filament winding, panel production, resin injection, foam materials, add cast polyester and epoxy parts, coatings, adhesives, latex, vinyl and urethane.

**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> , %	<0.04
Fe <sub>2</sub> O <sub>3</sub> , %	<0.02
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.05
Free Moisture (TGA), 105° C, %	0.46

### TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% < 45 micron	99.98
% < 10 micron	72.4
Median Particle Diameter, microns	6
Loss on ignition, 550° C, %	34.5
Surface Area BET (m <sup>2</sup> /gm)	5
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density- packed (gm/lit.)	900
Brightness Ry	96
CIELAB, L*	98
Moh's Hardness	3.0
Electrical Conductivity, μS/cm	<130
Oil Absorption, ml/100gm	28

### 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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