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HN-434 ALUMINA TRIHYDRATE

DESCRIPTION

HN-434 is a halogen-free, 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

A closely controlled top size with a large superfine fraction yields rapid dispersion in resin. Excellent mold flow and wet-out characteristics result in superior surface profile with minimal porosity, even pigmentation and excellent filler and reinforcement distribution throughout the molded part. HN-434 is recommended for spray-up or hand-lay up FRP applications, filament winding, panel production, resin injection, foam materials, cast polymer and epoxy parts, coatings, adhesives, latex, vinyl and urethane compounds.

PHYSICAL FORM: White powder
GENERIC TYPE: Alumina trihydrate

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

TYPICAL CHEMICAL ANALYSIS

Al(OH) ₃ , %	99.6
SiO ₂ , %	<0.04
Fe ₂ O ₃ , %	<0.02
Na ₂ O (total), %	0.2
Na ₂ O (soluble), %	0.03
Free Moisture (TGA), 105° C, %	0.35

TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% < 45 micron	99
% < 10 micron	51.3
% < 1 micron	8.6
Median Particle Diameter, microns	9.5
Loss on ignition, 550° C, %	34.5
Surface Area BET (m ² /gm)	3
Specific Gravity (gm/cm ³)	2.42
Bulk Density- packed (gm/lit.)	1100
Brightness Ry	94
CIELAB, L*	98
Moh's Hardness	3.0
Electrical Conductivity, μS/cm	<130
Oil Absorption, ml/100gm	22

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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