



HN-36 Alumina Trihydrate

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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

MORPHOLOGY: Hexagonal Platelets

GENERIC TYPE: Aluminum Hydroxide

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), % | 0.02 |
| 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 ² /gm) | 1.40 |
| Specific Gravity (gm/cm ³) | 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.