

Magnesium Hydroxide AKnoka® F5

I. Product Introduction

AKnoka® F5 is a high-purity magnesium hydroxide powder synthesized through a unique process, exhibiting a regular hexagonal flake crystal morphology.

General characteristic

Surface	White powder
Molecular Formula	Mg(OH) ₂
Cas number	1309-42-8
Formula weight	58.32

Key indicators

	Project Unit Value	Project Unit Value	Project Unit Value
Mg (OH) ₂		%	≥99.5
CaO		%	≤0.20
Fe ³⁺		%	≤0.005
Cl ⁻		%	≤0.03
H ₂ O		%	≤0.3
BET		m ² /g	4~6
Loss on ignition		%	≥30.0
Whiteness		%	≥99
Granularity (D50)		μm	≤1.5

II. Product Features

High purity, high content, excellent whiteness, regular crystal morphology, uniform particle size, and good dispersibility with a high aspect ratio maintain the material's mechanical properties and flexibility even under high filling conditions. It exhibits high thermal stability and outstanding smoke suppression performance, being halogen-free, non-toxic, and non-corrosive to gases, significantly enhancing the material's flame retardancy rating.

III. Application Fields

Products include PVC cables, low-smoke halogen-free cables, cross-linked polyethylene, thermoplastic elastomers, and ethylene-propylene rubber; home appliance casings, chargers, power adapters, and PCB circuit boards; power battery pack housings/separators/cover plates, wire harnesses/TPU cables, electronic potting compounds, automotive connectors, and

interior trim materials; as well as fireproof coatings, building insulation coatings, PVC/PP architectural profiles, and TPO waterproof membranes.

IV. Storage and Packaging

Packaging: Net weight per bag is 20 kg. Packaging can be customized according to user requirements.

Storage: Store in a cool, dry place.

V. Safety and Environmental Protection

The Material Safety Data Sheet (MSDS) for this product may be obtained from our company upon request. The MSDS provides information on material handling, safety precautions, disposal requirements, and applicable local health and safety regulations. This product complies with EU RoHS/REACH regulations. According to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), this product is not classified as hazardous.

6. Remarks:

The information and data provided in this document are for reference purposes only, based on our current technical expertise and experience. Customers must conduct tests on purchased products to verify their suitability for specific processes or applications, ensuring compliance with intended objectives. We cannot control further product applications or manufacturing processes. Our liability is limited to the delivered products you use and does not cover any indirect losses arising from their application. Our technical support and customer service teams are available to provide product consultation and application assistance. Please feel free to contact us via email or phone.



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