

Magnesium hydroxide AKnoka® K1

I. Product Introduction

AKnoka® K1 is a white magnesium hydroxide powder, produced as an ultrafine powder through advanced wet grinding technology.

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		%	≥98.5
CaO		%	≤0.05
Fe ³⁺		%	≤0.005
Cl ⁻		%	≤0.4
H ₂ O		%	≤0.5
Loss on ignition		%	≥30.0
Whiteness		%	≥97
Granularity (D50)		μm	≤3

II. Product Features

High purity, excellent whiteness, low chlorine content, fine and uniform particle size, good dispersibility in materials, and resistance to agglomeration. Moderate decomposition temperature, superior flame retardancy and smoke suppression effects, non-smoking, non-toxic, and non-corrosive properties, meeting environmental requirements for various materials. Minimal impact on material strength, toughness, and processability, with stable performance and strong applicability.

III. Application Fields

Applications include PVC cables, low-smoke halogen-free cables, cross-linked polyethylene, thermoplastic elastomers, and ethylene-propylene rubber.

IV. Storage and Packaging

Packaging: Each bag has a net weight of 20 kg and is constructed with a three-layer composite paper bag lined with polyethylene (PE).

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.