

ALFRIMAL® MG-H 4

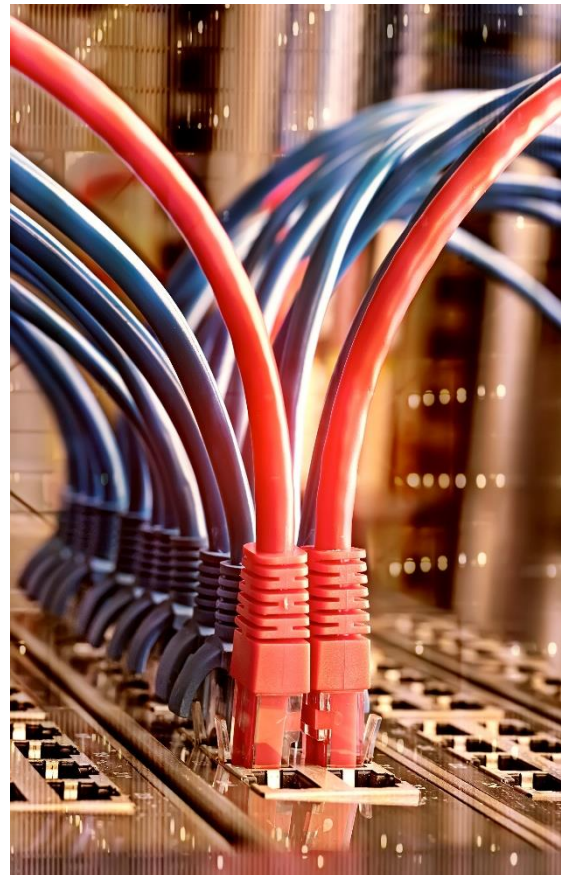
Product Properties

The new generation halogen-free flame retardant **ALFRIMAL MG-H 4** is based on natural magnesium hydroxide combining high whiteness with a narrow particle size distribution. No toxic or corrosive gases are generated in case of fire. This material is especially suitable for cable formulations, plastics and flame-retarded coatings. This material can be applied in combination with other flame retardants, e.g. aluminium hydroxide, to widen the decomposition temperature gap.

WORK HORSE FOR PRECIOUS APPLICATIONS

Key Benefits at a glance

- Fine magnesium hydroxide
- Acts as flame retardant (HFFR)
- Applicable in combination with ATH
- Cost reduction of FR system
- Avoid more expensive HFFRs
- Decomposition temperature > 300 °C
- Narrow decomposition temperature gap
- Independent of pH
- Exchange of 5 µm standard fillers 1:1



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ALFRIMAL® MG-H 4

Introduction

ALFRIMAL MG-H 4 is used as flame retardant at processing temperatures above 200 °C. **ALFRIMAL MG-H 4** is a natural magnesium hydroxide with a high activity as catcher of acidous fire gases in flame retarding systems and PVC. **ALFRIMAL MG-H 4** shows high decomposition temperature and is more appropriate for organic compounds with advanced decomposition temperatures. Due to this fact, **ALFRIMAL MG-H 4** is especially suitable for multilayer systems like water impermeable films. Additionally, this product is especially applicable in precious cable insulations, insulation plastics and roofing systems.

Chemical and Physical Data

Composition:	Natural magnesium hydroxide, surface modified
Activity:	100% active by weight
Color:	White
Form:	Fine particle sized powder
Average particle size:	4 µm
Whiteness, Ry:	95
Sieve Residue > 45 µm:	< 0,01 %
Specific surface BET:	7 m ² /g
Residual moisture content:	< 1 %
Bulk Density:	400 kg/m ³

Application examples

Cables:

- High quality bedding compounds
- Water booster at temperatures > 300 °C

Rubber:

- Standard FR in white and colored products
- Specialty water booster in colored specialties

Insulation plastics:

- Standard FR in white products

Roofing systems:

- Water booster in FR systems

Solid surface:

- Decomposition temperature gap > 300 °C in combination with ATH-grades



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