

ALFRIMAL® 106 HS

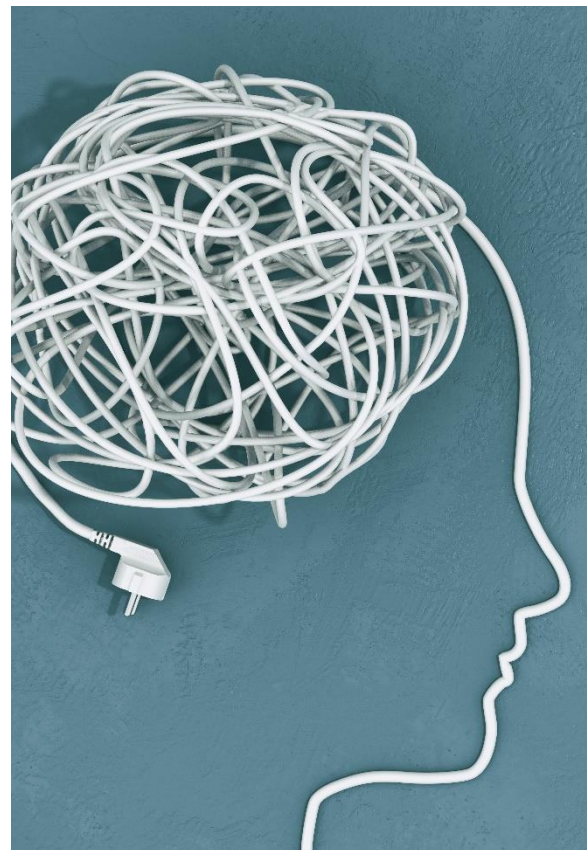
Product Properties

More and more products on the market have to be safe in case of fire enabling people to leave the area before an initial fire propagates. **ALFRIMAL 106 HS** is a new aluminium hydroxide quality, which is especially suitable as flame retarding filler for plastics and rubber articles. In contrast to conventional **ALFRIMAL** products, the surface of **ALFRIMAL 106 HS** is water-repellent, to apply this material in a wide spectrum of organic-based compounds, where hydrophobic interactions are possible.

SMART GUARD FOR WIRE AGAINST FIRE

Key Benefits at a glance

- Water-repellent ATH
- Hydrophobic interactions with matrix
- Acts as flame retardant (HFFR)
- Rheology behavior like standard filler
- Exchange of standard fillers 1:1
- Narrow decomposition temperature gap
- Synergist for FRs
- Independent on pH



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ALFRIMAL® 106 HS

Introduction

Keeping the plastics or rubber cushion is the key driver to develop flame retardants neither disturbing the mixing and processing nor the color, surface or grip, but which act as fire extinguisher immediately in case of ignition. Due to the high specific surface and a precise top cut at 32 µm **ALFRIMAL 106 HS** is a new benchmark on the market of fine particle-sized ATH grades. Due to its water-repellent surface, the product is suitable for all kind of applications, in which other aluminium hydroxide fillers cause problems due to their moisture content, e.g. special cable compounds and humidity sensitive systems, where hydrophobic interactions are necessary. By application, please ensure that the fine fraction is not sucked away.

Chemical and Physical Data

Composition:	Fine particle-sized aluminium hydroxide
Surface:	Water-repellent
Color:	White
Form:	Fine powder
Average particle size:	2 µm
Sieve Residue > 20 µm:	0 %
Specific surface BET:	7 m ² /g
Bulk Density:	600 kg/m ³

Application examples

Cables:

- High quality bedding compounds
- Special sheathing compounds
- Water booster in HFFR compounds

Rubber:

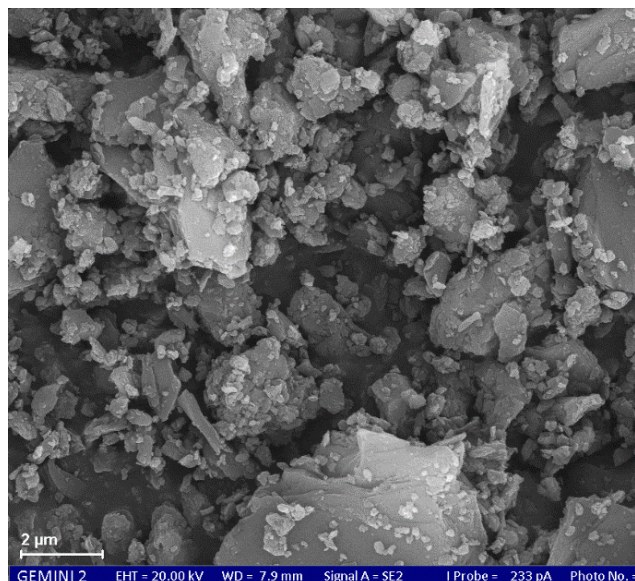
- Standard FR in black rubber products
- Standard FR in white rubber products
- Specialty water booster in corporate colored specialties

Elastomeric foams and thermosets:

- Water booster in nitrile/PVC
- Water booster in HFFR

Elastomeric foams and thermosets:

- Water booster in HFFR



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