

ALFRIMAL[®] 106

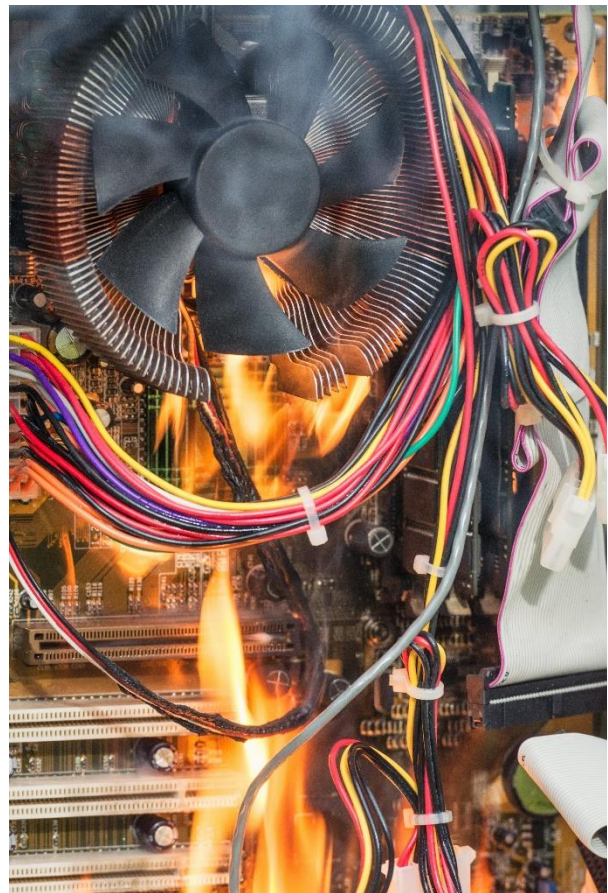
Product Properties

The new generation halogen-free flame retardant **ALFRIMAL 106** stands for an aluminum hydroxide combining highest whiteness with a small particle size. It fits into the polymer matrix exactly like 2 µm mineral fillers. Because of precise top cut this material is especially suitable as flame retardant for plastics and rubber. No toxic or corrosive gases are generated in case of fire, what contributes to the ecological impact of this material.

WATER BOOSTER AT FIRE IGNITION

Key Benefits at a glance

- Fine particle-sized ATH
- Acts as flame retardant (HFFR)
- Extender for finely precipitated ATH
- Cost saving by production
- Rheology behavior like standard filler
- Exchange of 2 µm standard fillers 1:1
- Low decomposition temperature
- Narrow decomposition temperature gap
- Synergist for FRs
- Independent on pH



V3 / 2020-09-15 / OK

Alpha Calcit Füllstoff Gesellschaft mbH & Co. KG

D-50971 Köln Postfach 50 11 06
D-50997 Köln Otto-Hahn-Str. 9-11

Telefon: +49 2236 8914-0
Telefax: +49 2236 40644

Email: info@alpha-calcit.de
Internet: www.alpha-calcit.de



Die in unseren Informationen und Druckschriften angegebenen Werte sind Durchschnittswerte ohne Rechtsverbindlichkeit.
The data indicated on our data sheets and printed matters represent average values and are not legally binding.

ALFRIMAL[®] 106

Introduction

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. Such requests do exist for building products of all kinds from single room apartments to multi-story skyscrapers. 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.

Chemical and Physical Data

Composition:	Ultra finely particle-sized aluminum hydroxide
Activity:	100% active by weight
Color:	White
Form:	Fine powder
Average particle size:	1.8 μm
Whiteness, Ry:	98
Sieve Residue > 20 μm :	0 %
Specific surface BET:	7 m^2/g
Residual moisture content:	0,5 %
Bulk Density:	600 kg/m^3

Application examples

Cables:

- High quality bedding compounds
- Standard grade sheathing compounds
- Water booster in HFFR compounds

Rubber:

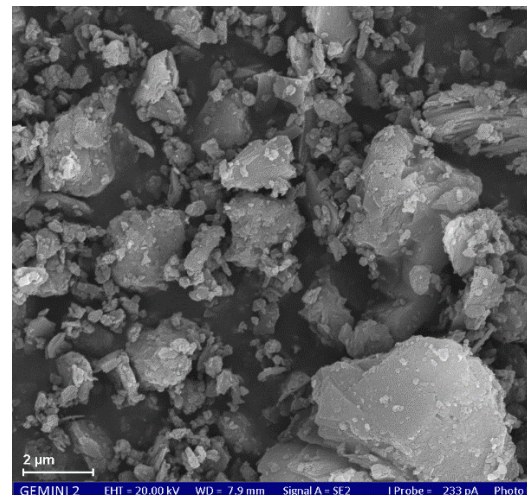
- Standard FR in black rubber products
- Standard FR in white rubber products
- Specialty water booster in colored specialties

Elastomeric foams:

- Water booster in nitrile/PVC and HFFR foams

Solid surface:

- Water booster in combination with other ATH-grades



V3 / 2020-09-15 / OK

Alpha Calcit Füllstoff Gesellschaft mbH & Co. KG

D-50971 Köln Postfach 50 11 06

Telefon: +49 2236 8914-0

Email: info@alpha-calcit.de

D-50997 Köln Otto-Hahn-Str. 9-11

Telefax: +49 2236 40644

Internet: www.alpha-calcit.de

Die in unseren Informationen und Druckschriften angegebenen Werte sind Durchschnittswerte ohne Rechtsverbindlichkeit.
The data indicated on our data sheets and printed matters represent average values and are not legally binding.

