Alpha Calcit Application Leaflet

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.

WATER BOOSTER AT FIRE IGNITION

Key Benefits at a glance:

Surface modified 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

Picture: karim-manjra-uzitS6B81fo-unsplash

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Alpha Calcit Füllstoff Gesellschaft mbH & Co. KG

D-50971 Köln Postfach 50 11 06 | Telefon: +49 2236 8914-0 | e-mail info@alpha-calcit.de
D-50997 Köln Otto-Hahn-Str. 9-11 | Telefax: +49 2236 40644 | Internet www.alpha-calcit.de

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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 ***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.

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 > 32 µm:	0	%
Specific surface BET:	7	m^2/g
Bulk Density:	600	kg/m^3

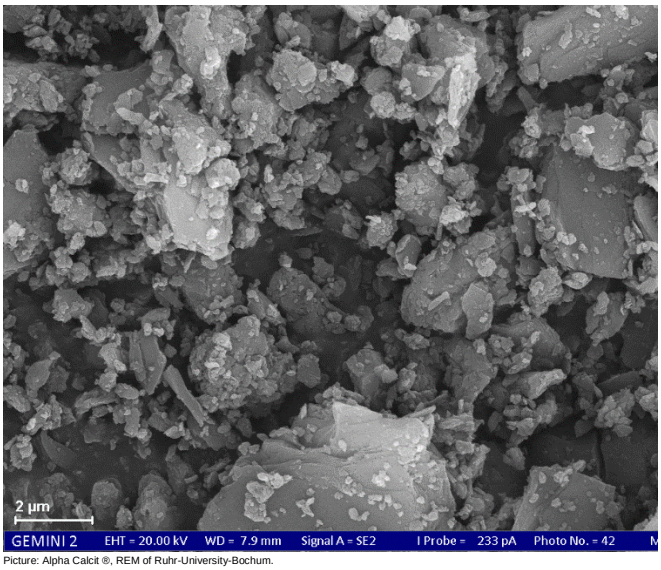
Application examples:

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

Solid surface:
Water booster in HFFR



Picture: Alpha Calcit ®, REM of Ruhr-University-Bochum.

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