

## **ALFRIMAL® 506 P**

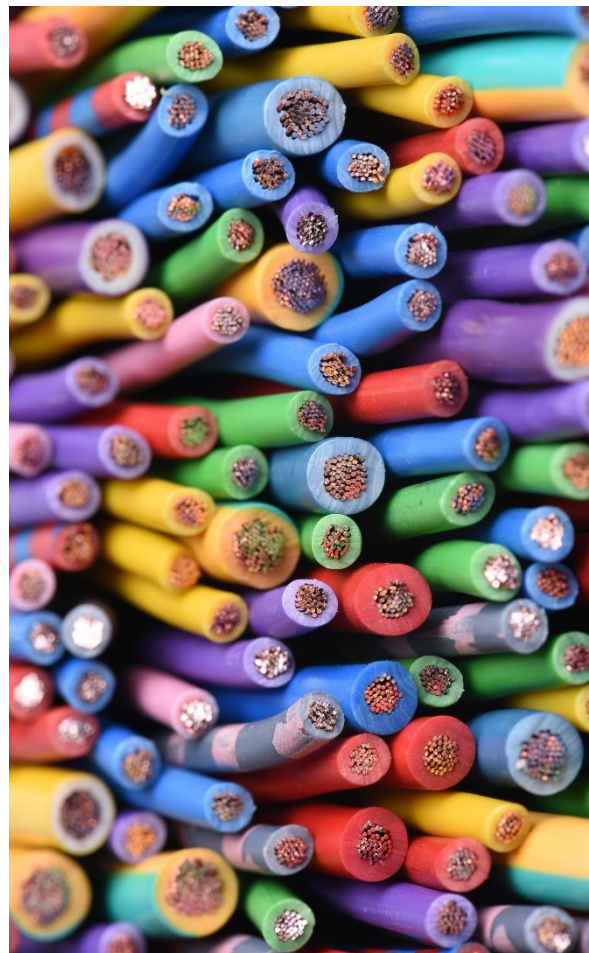
### **Product Properties**

The new generation halogen-free flame retardant **ALFRIMAL 506 P** 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.

## ***WATER BOOSTER AT FIRE IGNITION***

### **Key Benefits at a glance**

- Fine particle-sized ATH
- Acts as flame retardant (HFFR)
- 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



V5 / 2020-09-15 / OK

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## ALFRIMAL<sup>®</sup> 506 P

### 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:	1.4 $\mu\text{m}$
Sieve Residue > 20 $\mu\text{m}$ :	< 1 %
Sieve Residue > 32 $\mu\text{m}$ :	0 %
Specific surface BET:	4 $\text{m}^2/\text{g}$
Bulk Density:	400 $\text{kg}/\text{m}^3$

### Application examples

#### **Cables:**

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

#### **Rubber:**

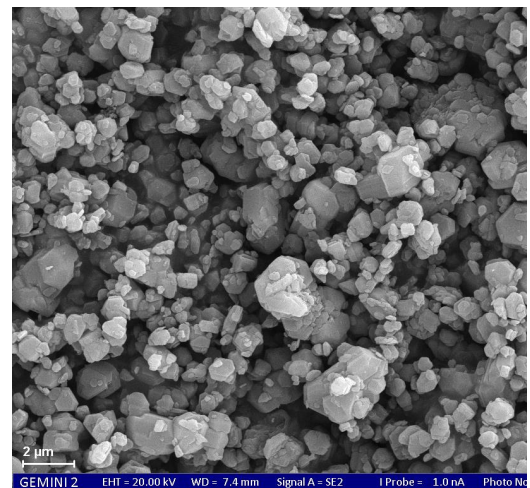
- Standard FR in black rubber products
- Standard FR in white rubber products
- Specialty water booster in corporate colored specialties

#### **Elastomeric foams:**

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

#### **Solid surface:**

- Water booster in combination with other ATH-grades



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