

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:

- Finely precipitated 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



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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:	Finely precipitated aluminum hydroxide
Activity:	100% active by weight
Color:	White
Form:	Fine powder
Average particle size:	1.4 μm
Sieve Residue > 20 μm :	< 1 %
Sieve Residue > 32 μm :	0 %
Specific surface BET:	4 m^2/g
Bulk Density:	400 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 corporate colored specialties

Elastomeric foam:

Water booster in nitrile/PVC
Water booster in HFFR

Thermosets:

Water booster in FR systems

Solid surface:

Water booster in combination with other ATH-grades

