

ALFRIMAL® - MADE FOR FIRE PROTECTION

Product Properties

ALFRIMAL stands for a big family of many different types of aluminium hydroxide based flame retardants suitable for a wide range of plastics and rubber articles. The particle size distribution is optimized for each application in all kind of organic binders. The improvement of the technological properties like mechanical properties and surface characteristics are improved by **ALFRIMAL**.

WITH WHOLE POWER AGAINST FIRE

Key Benefits at a glance

- Chemically pure ATH
- Acts as flame retardant (HFFR)
- Optimized PSD per application
- High filling is possible
- Improved processability of high filled systems
- Superior mechanical properties
- Improved surface properties



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Introduction

ALFRIMAL, based on special aluminium hydroxide with optimized particle size distribution, is especially suitable as flame retardant for plastics, resins and rubber. Very high loadings can be achieved. In contrast to conventional flame retardants, no toxic or corrosive gases are generated by **ALFRIMAL** in case of fire. Smoke temperature as well as smoke density are considerably reduced.

Chemical and Physical Data

Product	D50 CILAS [µm]	Sieve residue [%]	Whiteness Ry	Spec. surface Blaine [m ² /g]	Moisture [%]	Bulk density (untamped) [g/ml]
ALFRIMAL 443	6	45 µm < 0.1	96	5	0.4	0.7
ALFRIMAL 444 S	10	45 µm < 0.01	96	3	0.1	0.7
ALFRIMAL 446	11	90 µm < 0.1	96	4	0.3	0.8
ALFRIMAL 447 S	15	160 µm < 0.01	95	2	0.1	0.9
ALFRIMAL 448	15	160 µm < 0.5	95	1.5	0.3	0.9
ALFRIMAL 449	17	200 µm < 0.1	94	1	0.3	1.3
ALFRIMAL 449 S	17	125 µm < 0.1	94	1.5	0.1	1.0

Application examples

Building panels:

- Higher filling grades of polymers
- Reduced smoke development

Plastic structural elements:

- High quality compounds
- Special FR for different applications

Hard components:

- Standard FR in white products
- Standard FR in colored products



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