

Aluminium Hydroxide NF

Technical filler based on amorphous Aluminium Hydroxide powder

Field of application

For the viscosity control of printing inks

For the production of colouring materials with high covering capacity.

As anti-baking agent in the production of explosives

Description of product

Technically pure amorphous Aluminium Hydroxide sulphate resp. aluminium hydroxide sulphate carbonate complex (= technical filler).

White, light, very fine grained powder with a primary particle size of 0.01 – 0.1 µm

CAS-Number 21 645-51-2

Insoluble in water, soluble in acids and alkalis.

Not flammable, free of odours and taste.

Harmless to man, animals and plants.

The composition can be represented by the simplified formula $Al_6(OH)_{16}SO_4 \cdot H_2O$.

The secondary structure affects the specific property of the filler, for example transparency of an oil pasting, oil-adsorption and the intensifying property.

Aluminium Hydroxide NF corresponds to recommendation XXXVI. of the BfR.

Chemical Analysis*

Aluminium (Al ₂ O ₃)	approx. 42 %
Sulphate (SO ₄)	--
Loss on drying (105 °C / 2h)	max. 18 %
pH-Value (10 % suspension)	5.0 – 6.0

Physical Properties*

Bulk density loose (g/cm ³)	0.16 – 0.24 g/ml
Bulk density packed (g/cm ³)	0.18 – 0.35 g/ml
Oil absorption (cm ³ /g)	0.7 – 1.0 ml/g
Sieve analysis (+ 0,02 mm)	max. 12 %

Packaging

20 kg paper bags on pallets of 500 kg

Storage

May be stored for at least one year under dry conditions.

Certification

Our quality management system (ISO 9001) and environmental management system (ISO 14001) are successful certified by DQS.

* These values were obtained according to the test methods used in our laboratories. If required they can be put at your disposal.

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The information contained herein reflects our current level of technical knowledge and experience. It does not constitute a legal warranty of particular characteristics or of fitness for a specific purpose and, due to the abundance of possible influences, does not exempt the user from making its own examinations and taking appropriate precautionary measures. It shall be the responsibility of the recipient of our products to respect any intellectual property rights and comply with any laws or other provisions.

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