

Product Information

Aluminium Hydroxide

Product Description:

Aluminium hydroxide, also known as alumina trihydrate, is a white amorphous powder that has amphoteric properties. Bisley has many particle sizes available, providing the opportunity to choose the most suitable grade for specific applications. This material has high heat adsorption and has good thermal stability which can reduce flame propagation in materials.

Applications:

Aluminium hydroxide is used as an additive for shotcrete accelerators of Portland cement systems. It is used as a fire-retardant filler and extender in materials such as plastic, paints, coatings and rubber. Its use as a pigment extender means it can partially replace expensive pigments such as titanium dioxide, up to 30% by weight, and provide added benefits to the plastic formulation including improved fire-retardancy and mechanical properties.

Chemical Formula:

$\text{Al}(\text{OH})_3$

CAS No. :

21645-51-2

Specifications:

Parameters (units)	ALUFY GRADES					
	ALUFY 2	ALUFY 6	ALUFY 10	ALUFY 13	ALUFY 16	ALUFY 20
Specific gravity	2.40	2.40	2.40	2.40	2.40	2.40
Bulk density, tapped (g/cm^3)	0.60	0.80	1.00	1.10	1.20	1.30
BET specific surface area (m^2/g)	8.5	2.5	1.5	1.0	0.8	0.7
Median particle size, D50 (μm)	3.00	7.00	11.00	14.50	17.50	22.00
Sieving residue at 44 μm (%)	< 0.01	0.01	0.02	1.50	9.50	-

*Values in table are approximate.

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Packaging:

Material is available in 25 kg bags. Further packaging options may be available upon enquiry.

Storage:

Product should be stored in a dry place in sealed, original packaging away from direct sunlight.

Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purposes only. Customers are responsible for testing and confirming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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