

Aluminium Trihydroxide Powder

Key Features

Aluminium Trihydroxide powder is a general purpose filler which also provides flame retardancy and smoke suppression. Its low moisture content makes it an ideal filler for use in a wide variety of polyurethane systems.

- Low moisture content
- Flame retardant properties

	Method	Value
Moisture (20 – 105℃)	ISO 806	<= 0.1%
Al2O3	Dif.	64.5 - 65.5 %
SiO2	XRF	0.002 - 0.010%*
Fe2O3	XRF	0.005 - 0.0013%*
TiO2	XRF	0.001-0.003%*
CaO	XRF	0.001-0.007%*
Na2O	XRF	0.17 - 0.25%*
L.O.I (105 − 1000℃)	ISO 806	34.6%*
Granulometry <45 microns	ISO 13320-1	4.0<=12% Typically*

*Values for material dried to 105°C

How to Use

It is recommended that the powder is mixed thoroughly with Part 'A' of polyurethane casting resins (like our Fast Cast) before adding part B. Never count the weight of the filler powder in the mix ratio.

Aluminium trihydroxide can be added to casting resins at an approximate maximum percentage of 200% by weight (e.g. 200g of filler powder to 100g of resin). Doing so will reduce shrinkage, improve thermal stability considerably and result in a heavier more substantial feel to cast products however the resin will become harder to pour and reproduction of fine surface details will be impaired as the filler content is increased.

Our Aluminium Trihydroxide Filler Powder is compatible with all popular casting resins, including polyurethane, epoxy and polyester.

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty; express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

the quality and suitability of the product for their particular application and circumstances. Easy Composites Ltd shall be in no way responsible for the proper use and service of the product, nor for the safeguarding of personnel or property, all of which is the duty of the user. Any information or suggestions are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Before using any of our products, users should familiarise themselves with the relevant technical and safety datasheets provided by Easy Composites Ltd.

Easy Composites Ltd

Unit 39, Park Hall Business Village, Longton, Stoke on Trent, Staffordshire, ST3 5XA, United Kingdom. Tel. +44 (0)1782 454499, Fax. +44 (0)1782 596868, Email sales@easycomposites.co.uk, Web www.easycomposites.co.uk