

## 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°C)	ISO 806	<= 0.1%
Al <sub>2</sub> O <sub>3</sub>	Dif.	64.5 – 65.5 %
SiO <sub>2</sub>	XRF	0.002 – 0.010%*
Fe <sub>2</sub> O <sub>3</sub>	XRF	0.005 – 0.0013%*
TiO <sub>2</sub>	XRF	0.001– 0.003%*
CaO	XRF	0.001– 0.007%*
Na <sub>2</sub> O	XRF	0.17 – 0.25%*
L.O.I (105 – 1000°C)	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.

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