

PRODUCT SPECIFICATION: SPE. 0028

Section 1 – GENERAL	
Product Name	Alumina trihydrate ($\text{Al}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$), also referred as aluminium hydroxide (with the formula $\text{Al}(\text{OH})_3$).
Description	The hydrate is a fine, white, dry powder.
Properties	Density : $2,42\text{g}/\text{cm}^3$ Solubility : Insoluble in water, readily soluble in mineral acids.
Toxicity	The material is practically non-toxic (Rating 1 according to "Clinical Toxicology of Commercial Products"). The probable lethal dose to humans is more than 15g/kg body mass
Hazards	The dust is a nuisance particulate.
Special Precautions	A dust respirator must be worn when handling the material.
Statutory Aspects	Transported as low hazardous.

Section 2 – SPECIFICATION	
Appearance	The material shall be a fine, white, dry powder, free from visible impurities and foreign matter.
Aluminium	Not less than 65.0% (m/m) as Al_2O_3 (on dry basis)
Iron	Not more than 500ppm (m/m) as Fe_2O_3 (on dry basis)
Silica	Not more than 200ppm (m/m) as SiO_2 (on dry basis)
Moisture	Not more than 0.5% (m/m)
Fineness	Retained on 150 μm sieve : Not more than 0,2% (m/m) Retained on 75 μm sieve : Not more than 30,0% (m/m)

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	Retained on 53 µm sieve : Not more than 60,0 % (m/m)
	Passing 53 µm sieve : 40 to 80 % (m/m)

Section 3 – TESTING

The material is sampled and tested according to the most recent editions of the Sampling Procedures and Analytical Schedule respectively. The sample is tested to the most recent edition of the method specified.

<u>PARAMETER</u>	<u>METHOD NO.</u>
2.1 Appearance	
2.2 Aluminium	UMBOG 071
2.3 Iron	UMBOG 071
2.4 Silica	UMBOG 071
2.5 Moisture	UMBOG 071
2.6 Fineness	G 001/4 OR UMBOG 071

This material is used, tested and traded at: Umbogintwini Factory

Section 4 – PACKING

The material is supplied in bulk and bags.

Section 5 – DOCUMENTATION

This specification is based on: Information from Umbogintwini Factory.

Section 6 – USES

In the manufacture of Fe-free aluminium sulphate.

Section 7 – REASON FOR REVISION

October 2013 – New template