



Regular Specification

Product Name	Aluminum Hydroxide								
Synonym	Alumina Trihydrate / ATH								
Subject	AH-1	AH-1L	AH-3	AH-5	A-8	AH-8	AH-10H	A-10	A-15
AL(OH) ₃ %	≥99.4	≥99.4	≥99.4	≥99.4	≥99.4	≥99.4	≥99.4	≥99.4	≥99.4
SiO ₂ %	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03
Fe ₂ O ₃ %	≤0.02	≤0.02	≤0.03	≤0.02	≤0.02	≤0.02	≤0.03	≤0.03	≤0.03
Na ₂ O %	≤0.35	≤0.35	≤0.40	≤0.40	≤0.35	≤0.40	≤0.40	≤0.40	≤0.40
L.O.I %	34.5±0.5	34.5±0.5	34.5±0.5	34.5±0.5	34.5±0.5	34.5±0.5	34.5±0.5	34.5±0.5	34.5±0.5
Moisture %	≤0.35	≤0.40	≤0.40	≤0.40	≤0.30	≤0.35	≤0.35	≤0.35	≤0.35
Particle Size D ₅₀ (μm)	1 - 2	2.0 - 2.8	3 - 4.5	5 - 6.5	8 -10	7 - 9	9 -12	10 -13	13 -16
Whiteness %	>96	>93	>94	>94	91-93	92-95	≥95	90~92	≥89
Oil Absorption (Castor Oil) ml/100g	≤43	≤40	≤40	≤40	≤35	≤30	≤32	≤32	≤30
Product Type	Precipitated Fine ATH (Precipitated Source)	Fine Ground ATH (Mined Source)							



The alumina trihydrate production is based on Bayer process, where the raw material is bauxite. Alumina trihydrate (ATH) is produced in different grades: wet, dried, ground and finely precipitated one.

Aluminum hydroxide flame retardants (white powder) for processing temperatures up to about 160° C, for wire and cable, electronic and electrical components based on thermoset resins, building materials, mass transportation, paints and varnishes, paper and plaster with organic binder.

Ground and finely precipitated hydrates are mainly used as flame retardant filler materials in the production of:

- cable insulation
- cross-linked elastomers
- PVC/PE/PP Cable Compound
- polyester resins
- epoxy resins
- thermoplastics
- polyurethanes
- paper coating
- cellular glass
- carpet latex
- PVC/NBR Foam
- Industrial Conveyor Belt

MSDS can be provided by our Sales Managers at the Commercial Direction or via e-mail at james08@chenxuchem.com