SHANDONG CHENXU NEW MATERIAL CO., LTD.

Regular Specification

Product Name	Aluminum Hydroxide							
Synonym	Alumina Trihydrate / ATH							
Subject	AH-1	AH-5	A-8	A-8L	AH-10H	A-10	A-15	AH-25
$AL(OH)_3$ %	≥99.5	≥99.5	≥99.5	≥99.5	≥99.5	≥99.5	≥99.5	≥99.5
SiO_2 %	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.05	≤0.05
Fe_2O_3 %	≤0.02	≤0.02	≤0.02	≤0.02	≤0.03	≤0.03	≤0.03	≤0.03
Na_2O %	≤0.35	≤0.40	≤0.35	≤0.40	≤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
Moisture %	≤0.30	≤0.40	≤0.30	≤0.30	≤0.30	≤0.35	≤0.35	≤0.35
Particle Size D_{50} (μm)	1 ~ 2	4.5 ~ 5.5	8 ~ 10	6 ~ 9	9~ 12	10 ~ 13	13 ~ 16	22~ 28
Whiteness %	≥96	≥94	92-94	91-93	≥95	90~92	≥89	≥92
Oil Absorption (Castor Oil) ml/100g	≤45	≤40	≤35	≤30	≤35	≤32	≤30	≤30
Product Type	Precipitated Fine ATH (Precipitated Source)	Fine Ground ATH (Mined Source)						

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Customized Specification

PRODUCT	ALUMINUM HYDROXIDE	**APPEARANCE**	WHITE POWDER
MODEL	AH-3	**SYNONYMS**	ALUMINA TRIHYDRATE
SUBJECT		STANDARD VALUE	
$AL(OH)_3$ %		≥99.5	
SiO_2 %		≤0.05	
Fe_2O_3 %		≤0.03	
Na_2O %		≤0.40	
WHITENESS %		≥94.0	Typical value more than 95
MOISTURE %		≤0.50	Typical value approximately 0.43
LOSS ON IGNITION %		34.5±0.5	
AVERAGE PARTICLE SIZE (μm)		3.0 ~ 5.0	Typical value ranges from 3.5 to 4.5
OIL ABSORPTION (CASTER OIL) (ml/100g)		≤40	

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Customized Specification

PRODUCT	ALUMINUM HYDROXIDE	**APPEARANCE**	WHITE POWDER
MODEL	AH-3L	**SYNONYMS**	ALUMINA TRIHYDRATE
SUBJECT		STANDARD VALUE	
$AL(OH)_3$ %		≥99.5	
SiO_2 %		≤0.05	
Fe_2O_3 %		≤0.03	
Na_2O %		≤0.40	
WHITENESS %		≥95.0	Typical value more than 96
MOISTURE %		≤0.50	Typical value approximately 0.40
LOSS ON IGNITION %		34.5±0.5	
AVERAGE PARTICLE SIZE (μm)		2.5 ~ 4.5	Typical value less than 3.5
OIL ABSORPTION (CASTER OIL) (ml/100g)		≤40	

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 200° 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 environmentally friendly 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