Tai Xing
泰星股份 绿色智造

Aluminum Hydroxide

$Al(OH)_3$

CAS No. 21645-51-2

Description

Aluminum hydroxide (ground type) is made of wet aluminum hydroxide powder by drying, grinding and sieving to get various grades with different particle sizes. Alumninum hydroxide is used as environmentally-friendly halogen-free flame retardant additives in a wide variety of applications.

General Properties

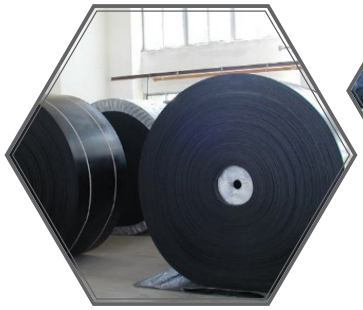
Molecular Weight	78
Density	2.42 g/cm^3
Crystal System	Monoclinic System
Mohs Hardness	3
Ratio of Refraction	1.57
Appearance	White Powder

Physical and Chemical Properties

Items	Unit	ATH-10	ATH-12	ATH-17	ATH-20
Al_2O_3	%	≥64.0	≥64.0	≥64.0	≥64.0
SiO_2	%	≤0.04	≤0.04	≤0.04	≤0.04
Fe_2O_3	%	≤0.02	≤0.02	≤0.02	≤0.02
Na_2O	%	≤0.4	≤0.4	≤0.4	≤0.4
Loss On Ignition	%	34.0~35.0	34.0~35.0	34.0~35.0	34.0~35.0
Moisture	%	≤0.3	≤0.3	≤0.3	≤0.3
Mean Particle Diameter	μm	8~12	12~15	15~18	18~22
Whiteness	HW-A	≥95	≥95	≥95	≥95
	HW-B	≥93	≥93	≥93	≥93
	GW	≥90	≥90	≥90	≥90
pH value	—	8.5~11.5	8.5~11.5	8.5~11.5	8.5~11.5

Application

Recommended to be used in plastics composites, conveyer belt, epoxy sealing and other rubber based compounds.




山东泰星新材料股份有限公司
SHANDONG TAIXING ADVANCED MATERIAL CO.,LTD.
http://www.txzuranji.com
电话：+86-531-88870399 服务热线 :400-0531-026

Aluminum Hydroxide

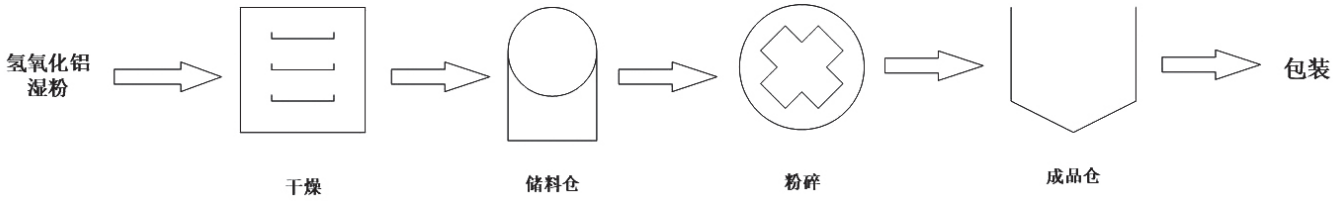
$Al(OH)_3$

CAS No. 21645-51-2

Ground Aluminum hydroxide Production Process

1.Operating Principle

The process principle of the impact mill is to use the hammer, blade, rod, etc. on the high-speed rotating rotary body to impact the crushed materials. Through the fierce impact of the material and the rotary body, the high-speed impact between the high-speed flying materials and the shear grinding between the rotary body and the stator or the side wall achieves the purpose of ultra-fine crushing of materials. The aluminum hydroxide of different particles size can be obtained by adjusting the classifier.



2.Process Characteristics

① High output, low power consumption and energy consumption
② Dynamic and static powder selection to adjust product quality, with higher grinding efficiency

Applications

Appications and Characteristics	Ground Aluminum Hydroxide
Processability	★★★★★
Applications	Conveyor Belt, Epoxy Pouring Sealant