

WH-30 Alumina Trihydrate Product Data Sheet

Product Characteristics

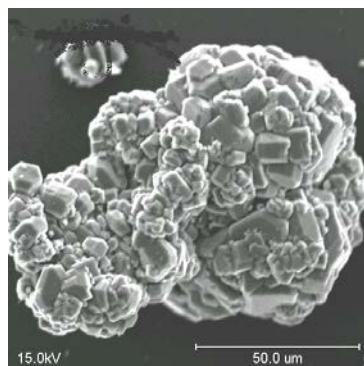
WH-30 is a high purity alumina trihydrate produced by the Bayer process. It has the consistency of damp beach sand. Noranda Alumina's unique crystallization process produces a product recognized throughout the industry as one of the most desirable raw materials for grinding. This same process imparts properties that lead to rapid dissolution in strong acid or strong bases.

Health Safety and Environmental

Information concerning health, safety and environmental issues are contained in Material Safety Data Sheet KDS-85.

Nomenclature

WH-30 is known by a number of common names. Some of them are: Alumina Trihydrate, Hydrate, Hydrated Alumina, Gibbsite, Aluminum Hydrate, Aluminum Hydroxide, Aluminum Trihydroxide, and bauxite ore concentrate. Chemical formulas for this product traditionally have been expressed in one of two forms: $Al(OH)_3$ or $Al_2O_3 \cdot 3H_2O$



WH30

Chemical Properties of WH-30 Alumina TrihydrateC Chemical Properties of WH-30 Alumina Trihydrate

<i>Chemical Analysis</i>	<i>Typical Range</i>	<i>Specification</i>	
$Al(OH)_3$	99.6 - 99.8	99.4	Min.
SiO_2	.007 - .012	0.015	Max.
Fe_2O_3	.005 - .008	0.02	Max.
Na₂O Total	.27 - .39	0.50	Max.
Leachable Na₂O	.004 - .020	0.025	Max.
Caustic Insoluble	.08 - .19	0.3	Max.
Acid Insoluble	.03 - .09	0.18	Max.
Moisture	4 - 9	10	Max.

All values are weight percent on a dry Alumina Trihydrate basis.

Particle Size Distribution (Cumulative)

<i>Screen</i>	<i>Typical Range</i>	<i>Specification</i>
% on 100 Mesh	1-10	15 Max
% on 200 Mesh	69-83	60 Min
% on 325 Mesh	92-97	85 Min

Physical Properties

Typical Reflectance	75 % Min
Bulk Density	50-80 lb/ft ³
Specific Gravity	2.42
Index of Refraction	1.57

Product Applications

Iron Free Alum	Flame Retardant/Smoke Suppressant
Detergent Zeolite	Catalyst
Sodium Aluminate	Ceramic and Glass
Aluminum Fluoride	

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