

ATH	Technical Datasheet
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Chemical Name	ALUMINIUM TRIHYDRATE	
Grade Name	ATH	
CAS No.	21645-51-2	
HS Code	28183000	
EINECS No.	244-492-7	
Molecular Formula	Al ₂ (OH) ₃	
Synonyms	• Aluminum trihydroxide • Aluminium hydroxide • Aluminum trihydroxide	
TEST	SPECIFICATION	METHOD
Appearance	Micronized super white powder	Visual
Loss On Ignition %	Max 35% (110 -1000 degrees C)	Thermogravimetry
Purity by Titration (on dry basis) %	Minimum 99.5%	Titration
% Na ₂ O	Max 0.35 %	XRF
% Fe ₂ O ₃	Max 0.02%	XRF / AAS / ICP
% SiO ₂	Max 0.02%	XRF / AAS / ICP
pH (1% Solution)	Max 10	pH Meter
Particle Size D50 Microns	Max 2 Microns	Particle Size Analyzer (Wet Method)
Particle Size D50 Microns	Max 3 Microns	Particle Size Analyzer (Wet Method)
Particle Size D99 Microns	Max 10 Microns	Particle Size Analyzer (Wet Method)

Product Information:

- ATH is used principally as a flame-retardant and smoke suppressant in plastics, rubber and carpet backing.
- As a filler in fine printing papers ATH increases opacity and brightness
- In paper coatings ATH imparts brightness, gloss and high ink receptivity.
- ATH is used as a reinforcing pigment in adhesives.
- ATH is also used as TiO₂ extension and for gloss control in powder coatings.
- ATH acts as nonreactive extender for UV curable coatings.

Product Handling & safety:

Please refer to our product MSDS for specific instructions on handling this product.

Product Registration:

Title: 21-FOOD AND DRUGS
Chapter: I-FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES
Subchapter: B - FOOD FOR HUMAN CONSUMPTION (CONTINUED)
Part: 176 - INDIRECT FOOD ADDITIVES: PAPER AND PAPERBOARD COMPONENTS
Subpart: B - Substances for Use Only as Components of Paper and Paperboard
Section: 176.170 Components of paper and paperboard in contact with aqueous and fatty foods.

Product Registration:

Title: 21-FOOD AND DRUGS
Chapter: I-FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES
Subchapter: A - GENERAL
Part: 73 -- LISTING OF COLOR ADDITIVES EXEMPT FROM CERTIFICATION
Subpart: B - Drugs
Section: 73.1010 Alumina (dried aluminum hydroxide).

Product Registration:

Title: 21-FOOD AND DRUGS
Chapter: I-FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES
Subchapter: D - DRUGS FOR HUMAN USE
Part: 347 - SKIN PROTECTANT DRUG PRODUCTS FOR OVER-THE-COUNTER HUMAN USE
Subpart: C - Labeling
Section: 347.50 Labeling of skin protectant drug products

Product Disclaimer

Important : This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose.

No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence breach of warranty, strict liability, and tort or contact rising in connection with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its indented conditions of use.

This product is not been tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or for use for which implantation within human body is intended.