

ALS-162	Technical Datasheet
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Chemical Name	ALUMINIUM SILICATE	
Grade Name	ALS-162	
CAS No.	12141-46-7	
HS Code	28399090	
EINECS No.	235-253-8	
Molecular Formula	Al ₂ SiO ₅	
Synonyms	<ul style="list-style-type: none"> • Synthetic Aluminium Silicate 	
TEST	SPECIFICATION	METHOD
Whiteness %	92-96	Colorimeter/Spectrophotometer/Whiteness meter
Specific Surface Area	8-10	BET
Specific Gravity	2.7 - 2.8	Hydrometer
Bulk Density - Tapped @25°C (gm/ cm ³)	0.38 - 0.45	Graduated Cylinder
Water absorption capacity	38 - 44	ASTM D570
Particle Size D50 Microns	5-6	Particle Size Analyzer (Wet Method)
pH (10% solution)	5.5 - 7.0	pH meter
Moisture %	0.4	Karl Fischer Method
% SiO ₂	55-58	XRF / AAS / ICP
% Al ₂ O ₃	33-35	XRF / AAS / ICP
% Fe ₂ O ₃	0.1	XRF / AAS / ICP
Loss On Ignition %	< 6.5	Thermogravimetry
Residue on Ignition /Residue Ash %	< 1.0	Thermogravimetry

Product Information:

- ALS-162 is moisture scavenger for plastic and coating systems
- ALS-162 is used as filler in Paints
- ALS-162 is used as reinforcing agent in rubber
- ALS-162 can be used as a partial replacement for TiO₂ in plastics applications.
- ALS-162 can be used for PVC profile applications, where it provides good opacity and maintains UV stability.

Product Handling & safety:

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

Product Registration: Aluminum silicate / Aluminium Silicate / China Clay is listed in US FDA CFR Listing under following headings.

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.

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Part: 178 - INDIRECT FOOD ADDITIVES: ADJUVANTS, PRODUCTION AIDS, AND SANITIZERS

Subpart: D -Certain Adjuvants and Production Aids

Section: 178.3297 Colorants for polymers.

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 contract 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.