



Global Product Data

Almatis Hydral[®] Coat 8

Almatis Hydral Coat 8 is a white aluminum trihydroxide $Al(OH)_3$. It is a specially precipitated high-purity white aluminum trihydroxide powder with a Z percent brightness value of 99+. It has an extra-fine, uniform median particle size of about 0.8 microns in diameter. Hydral Coat 8 powder is a fully deagglomerated powder.

Hydral Coat 8 is halogen-free and finds wide application as a low-smoke, flame-retardent filler in thermoset and thermoplastic materials. It improves arc-track resistance in many plastics used in electrical applications.

As a reinforcing pigment in adhesives, and adhesive tapes and electrical insulators, Hydral Coat 8 improves cold flow properties, maintains the neutrality or alkalinity of the composition, and increases cohesion.

Product	Hydral Coat 8	
	Typical	Test Methods
Chemical Composition (%)		
SiO ₂	0.005	DC Arc Optical Emissions Spectrometry
Fe ₂ O ₃	0.006	DC Arc Optical Emissions Spectrometry
Na ₂ O (total)	0.24	DC Arc Optical Emissions Spectrometry
Na ₂ O (soluble)	0.04	Flame Emission Photometry
Al(OH) ₃	99.6	Difference
Moisture	0.2-0.8	Microwave
Physical Properties		
Loose bulk density (g/cm ³)	0.4	Modified ASTM B212-89
Packed bulk density (g/cm ³)	0.6	Modified ASTM B527-85
Surface area (m ² /g)	6.0-7.5	Brunauer-Emmett-Teller Nitrogen Adsorption
Brightness (% Z)	99.2	Z value of the XYZ Tristimulus divided by 1.18103
Refractive index	1.57	
Mohs hardness	2.5-3.5	
Electrical conductivity (μS/cm)	<200	Modified ISO787-14 (10%)
Density (g/cm ³)	2.42	
Particle Size		
% on 325 mesh	0.003	Wet Screen
d ₉₅ (μ)	1.70	Sedigraph 5100
d ₅₀ (μ)	0.75-0.90	Sedigraph 5100
d ₁₀ (μ)	0.45	Sedigraph 5100

2003 Data All data are based upon Almatis standard test methods, and all test methods are available upon request.



Almatis Hydral[®] Coat 8



Contacts for sales, technical information and application assistance

Almatis GmbH

Lyoner Straße 9
60528 Frankfurt/Germany

Phone
49 69 957 341 0

Fax
49 69 957 341 13

Almatis, Inc.

501 West Park Road
Leetsdale, PA 15056
USA

Phone (within US)
1 800 643 8771

Phone (outside US)
1 412 630 2800

Fax
1 412 630 2900

Qingdao Almatis Co., Ltd.

15F, Sunshine Tower
61 Hongkong Middle Road
Qingdao, 266071, China

Phone
86 532 8572 8035

Fax
86 532 8572 8551

Almatis Limited

Morimura Bldg.
1-3-1 Toranomom
Minato-ku, Tokyo 105-8451

Japan

Phone
81 3 3502 2371

Fax
81 3 3502 2375

Almatis Headquarters

Lyoner Straße 9
60528 Frankfurt/Germany

Phone **49 69 957 341 0**
Fax **49 69 957 341 13**

info@almatis.com
www.almatis.com

MSDS 839