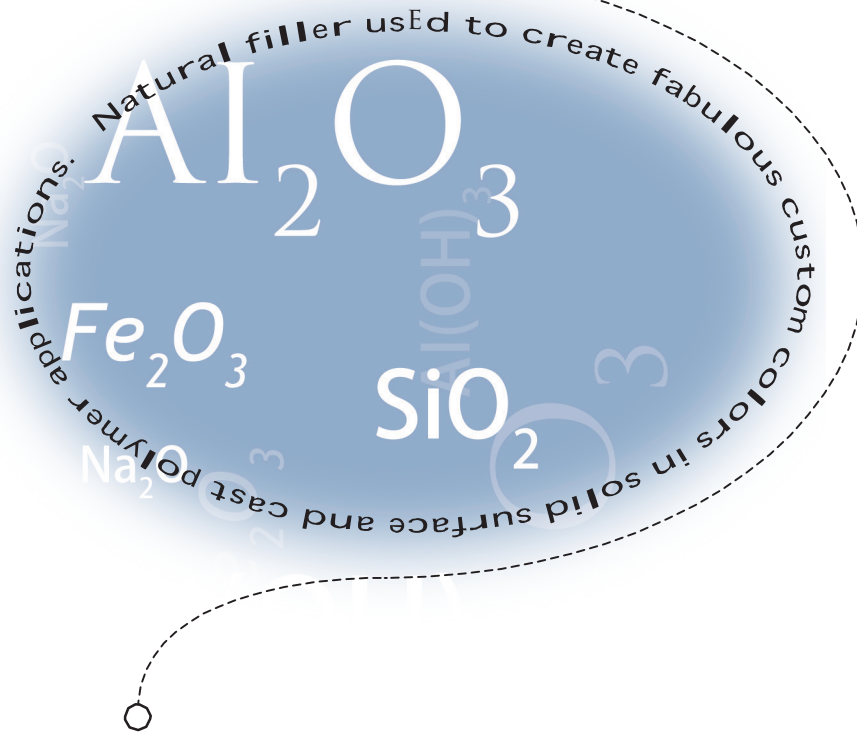


ATH SERIES



Designed to meet the needs of the cast polymer industries, the ATH series offers three grades of alumina tri hydrate:

ONYX PRO 25

For most solid surface requirements, ACS is pleased to offer Onyx Pro 25. With a 95% whiteness factor, a below 30 mesh particle size, and low resin demand, users of Onyx Pro 25 will achieve excellent performance while maintaining a competitive price.

ONYX PRO 50

Onyx Pro is a very clear white grade of alumina tri-hydrate with high translucency, excellent gel times, and low resin consumption. There is no brown or yellow cast with Onyx Pro 50.

BAYER GRADE

ACS supplies a Bayer grade alumina tri-hydrate, with an average particle size of 25 microns and excellent air release characteristics. The standard color of this grade of Bayer grade ATH is off-white.

ATH Applications

- Custom solid surface colors
- Custom cast polymer colors
- Products where high translucency is required
- Products that have to meet fire codes

	Bayer Grade	Onyx Pro 25	Onyx Pro 50
Chemical Composition			
A1(OH) ₃ (% min)	99.4	99.6	99.5
SiO ₂ (%)		0.003	0.003
Fe ₂ O ₃ (%)		0.02	0.02
Na ₂ O (% Total)	0.05	0.20	0.20
Moisture (%)	0.50	0.2	0.13
Loss On Ignition	33.5	34.5	34.5
Physical Properties			
Color	off-white	white	white
Loose Bulk Density (g/cm ³)	.9-1.0	0.9-1.0	0.9-1.0
Packed Bulk Density (g/cm ³)	0.8	1.3–1.4	1.3-1.4
Refractive Index	1.2	1.57	1.57
Mohs Hardness	3.0	3.0	3.0
Specific Gravity	2.42	2.42	2.42
Surface Area (m ² /g)	1.0	1.1	1.1
d50 (μ) (particle size)	25 μm	25-42 μm	27 μm
Resin Demand ⁽¹⁾			
5 RPM's (Viscosity-Cp)		640	640
50 RPMS's (Viscosity-Cp)		1100	1100
Gel Time ⁽²⁾ (mins)	20	16	16
Color ⁽²⁾ (WI-CIE)		24	24
Translucency ⁽³⁾ (%)		13	13

Availability & Packaging

Lead time is typically less than five days. All of the ATH products are packaged in 50 pound paper bags and are also available in bulk bags.

(1) 60% hydrate, 40% Silmar 1302 Resin.

(2) 60% Hydrate, 40% Silmar 93 BE-956 Resin, 2% Lupersol™ DDM-9 Catalyst

(3) 60% Hydrate, 40% Silmar 793 C-Resin, 2% Lupersol™ DDM-9 Catalyst.

Relative translucency (light transmission—larger value is more translucent)

Lupersol is a trademark of Elf Atochem.



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