

ALOX[®] 606-55

Rust Preventatives
Solvent Soluble Calcium

Product Description

ALOX 606-55 is a partial solvent cutback containing 55% ALOX 606 and 45% 105°F flash point mineral spirits. This is supplied to simplify handling and further dilution of the product. The residual film, after solvent evaporation, is highly resistant to high humidity and salt atmospheres, making ALOX 606-55 particularly useful in automotive rust-proofing and long-term outdoor storage applications.

Typical Properties

Physical Form	Liquid*
Melting Point, °C, min (residual film)	132
Solids Content (%) (AQCT-8)	55.0
Specific Gravity @ 15.6°C	0.89

*ALOX 606-55 is a viscous liquid at the time of production. Over time, particularly in cold storage, the material will increase in viscosity, often to the point that a semi-solid physical state occurs. The product can be returned to a liquid state by heating to 35-40 °C. This phenomenon is normal and expected based on the chemistry of the product.

ALOX 606-55 is filtered through a 150-micron bag filter at the time of production, but should be filtered again prior to use in spray equipment or aerosol packaging.

Performance

ALOX 606-55 in Mineral Spirits ¹ (%)	Film Thickness (mils)	5% Salt Spray ² Days/Fail	Humidity Cabinet ³ Days/Fail
40.0	0.45	6	60+
45.0	0.90	25	60+
50.0	1.60	60+	60+
53.0	2.50	60+	60+
55.0	4.00	60+	60+

¹ 41 or 60°C (105 or 142°F) flash point

² Federal Standard 791b Method 4001.2 using polished cold rolled steel panels

³ ASTM D-1748 using polished cold rolled steel panels

Some instability may be experienced in cutbacks below 40% solids.

Suggested Formulations	Viscous Liquid	
	ALOX 606-55	100.0%
	Thixotropic	
	ALOX 606-55	85.0%
	Thixcin R ²	3.0%
	Clay (Attagel 40, 50) ³	5.0%
	Mineral Spirits ¹	7.0%
	¹ 105°F or 142°F flash point	
	² A product of Elementis Specialties	
	³ A product of Engelhard - Mineral & Chemical Div.	

Suggested Applications	<ul style="list-style-type: none"> • Auto Rust-proofing applicable to the following specifications: <ul style="list-style-type: none"> ○ Mil-C-83933A ○ Mil-PFR 16173E Grade 4, Class 1 • Wire Rope Field Dressing • Acid Fume Resistance — A blend of ALOX 606 and ALOX 319F offers good protection against acid fumes at low percentages in oil. • Outdoor Protection
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Alternate Products	<p>ALOX 2211Y diluted in mineral spirits provides lighter color, thixotropic cutbacks that perform in a similar manner to ALOX 606 cutbacks. Consult the individual data sheet for further information.</p> <p>ALOX 606 chemistry is also available at a 70% activity level in solvent (ALOX 606-75). ALOX 606-55HF is 55% active in a higher flash point solvent. Additionally, fully concentrated ALOX 606 is available. Consult the individual data sheets for further information.</p>
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Responsible Care	<p>For complete safety, health, personnel protection and first aid information, please refer to the Material Safety Data Sheet (MSDS) that can be ordered via your local Lubrizol Metalworking representative or regional office listed on this data sheet. Product Data Sheets and MSDS's are also available online to registered users at www.mylubrizol.com.</p>
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