



Product	Type
----------------	-------------

COOLSURF™ DILO-11 Metal Processing

1:1 alkanolamide from Lard Oil

Application

Coolsurf DILO-11 is a superamide formed by the reaction of lard oil and saturated fats derived from lard oil and Diisopropanolamine (DIPA). Coolsurf DILO-11 is free from ethanolamine.

Coolsurf DILO-11 is an excellent co-emulsifier providing excellent oxidative stability, good boundary lubrication, high reserve alkalinity and excellent corrosion protection for soluble oils, semi-synthetics, synthetics and rust preventives.

Typical Properties

Test	Typical
Appearance	Brown waxy
Specific gravity at 15.6° C	0.98
Total base number, mg KOH/g	135

Benefits

- Excellent co-emulsifier
- High reserve alkalinity and low foam
- Boundary lubrication and oxidative stability
- Thickener and viscosity building in water solution
- Dispersible in oil and water

Suggested Formulation Details

- Soluble Oils: 5-8 % as a co-emulsifier, lubricant, corrosion inhibitor and alkalinity source for machining and forming operations
- Semi-Synthetics: 5-8 % as a co-emulsifier, lubricant, corrosion inhibitor and alkalinity source for machining and forming operations
- Synthetics: 5-10 % as a lubricant, corrosion inhibitor and source of reserve alkalinity in machining and forming operations
- Rust Preventives: 5% as a co-emulsifier and rust inhibitor

Storage and Handling

Recommended Maximum Long Term Storage Temperature*	Ambient
Recommended Minimum Temperature for Use	Ambient
Flash Point	120° C COC



Lockhart Chemical Company

4302 James P Cole Boulevard Flint, MI 48505

Phone: 1-810-789-8330 Fax:1-810-789-3266

www.lockhartchem.com

email: customerservice@lockhartchem.com

DISCLAIMER: To the best of our knowledge, the information and recommendations contained herein are accurate. However, this information and recommendations are furnished without any warranty, representation or license of any kind. Users of our products are encouraged to run their own tests to ensure product fitness for their applications. Furthermore, users assume sole liability for any patent infringement that occurs by reason of following our recommendations or using the information given

Coolsurf is a Trademark of the Lockhart Chemical Company

2/1/2017