



Product	Type
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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 with 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



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