

Product	Type
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COOLSURF™ 2105
Metal Processing
2:1 modified Diethanolamide
Application

Coolsurf 2105 is a modified 2:1 amide of diethanolamine and TOFA.

Coolsurf 2105 is useful in formulating soluble, semi-synthetic and synthetic metalworking fluids and cleaners. It 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, cleaners and rust preventives.

Typical Properties

Test	Typical
Appearance	Clear, dark reddish, viscous fluid
Specific gravity at 15.6° C	0.99
pH at 1%	9.0
Total acid number, mg KOH/g	10
Total alkalinity, mg KOH/g	120
Water wt. %	<2

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	>190°C COC



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