LOCKHART
Technologies for
Better Surface Protection

Technical Data Sheet

Product	Type

COOLSURF™ RCO-70   Metal Processing

Ethanolamine-free alkanolamide

Application

Coolsurf RCO-70 is an amide resulting from the reaction of diisopropanolamine and a vegetable oil rich in oleic acid

Coolsurf RCO-70 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 cleaners.

Typical Properties

Test	Typical
Appearance	Amber, viscous fluid
Specific gravity at 15.6° C	0.96
pH at 1%	10
Total base number mg KOH/g	50
Water wt. %	3

Benefits

- Water soluble and dispersible in oil
- Very low foam
- High reserve alkalinity
- Good emulsifying properties
- Boundary lubrication and oxidative stability
- Non-staining on aluminum
- Excellent hard water stability
- Dispersible in oil and water

Semi-synthetic fluid concentrate

PART I
First: Prepare the oil phase as follows

100 SUS naphthenic oil 63.0%

Coolsurf RCO-70 ....14.0%

Counter Rust™ HW-100 .... 2.0%

Tall Oil 25/30 rosin acid 8.0%

Glycol Ether TPnB 8.0%

TMP oleate.. 5.0%

PART II
Second: Add oil phase into water while mixing

Water .... 20% - 35%

Counter Rust T-43 .... 11.5% - 12.5%

Part I (Oil Phase) .... 50% - 65%

Defoamer ....0% - 0.2%

Fungicide ....0% - 1.0%

RECOMMENDED USAGE

Fluid Concentrate	Water
***General Machining*…………………5 – 7%**...Balance	
***Heavy-Duty Machining*……………10 – 12%**...Balance	

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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