



EMULAMID FO-5DF

Diisopropanolamide

Co-Emulsifier / Corrosion Inhibitor

Emulamid FO5-DF is a DEA-free fatty amide designed for incorporation into most water dilutable metalworking products.

Emulamid FO5-DF, in addition to corrosion inhibition, provides enhanced boundary lubricity and metal wetting characteristics to the finished coolant. Also, enhanced hard water stability can be achieved with this product compared to the conventional DEA-containing amides.

Emulamid FO5-DF is recommended at treat levels of 5-10% in semi-synthetics and synthetic fluids. Higher treat levels (10-20%) are recommended for water soluble drawing compounds.

In these applications, **Emulamid FO5-DF** produces an elevated viscosity characteristic and high film strength when the finished product is inverted with water (water added to product) prior to the drawing operation.

Seasonal variations in raw materials may slightly alter **Emulamid FO5-DF's** appearance and sensitivity to cooler temperatures. Under cooler environments, gelling or solidification may occur. Gradual warming of the material will return the product to the typical homogeneous fluid appearance.

TYPICAL PROPERTIES

Property	Typical Result
Appearance	Clear Dark Amber
Specific Gravity @ 60° F	.97
Density, lb./gal	8.11
Viscosity @ 100° F	2,000
Viscosity @ 210° F	75
Neutralization Number (meqHCl/g)	4

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