



EM 90
Fatty Oil
Sperm Oil Replacement

EM 90 is a fatty oil compound from synthetic and natural sources designed as a sperm oil replacement. **EM 90** offers excellent wetting properties and is polar, making it ideal for industrial gear lubricants, cutting oils, ferrous and non-ferrous rolling oils, as well as other metalworking fluids.

EM 90 may be utilized in a variety of applications. Typical formulation guidelines for machining are indicated below:

	<u>% Treat</u>
Straight Oils (Machining)	2-10
Soluble Oils (Machining)	5-15
Industrial Gear Oils	2-10

EM 90 should be stored in an original container or bulk storage tank. Prolonged exposure to 0°F may result in solidification. Warming drums between 80-100° should reverse solidification. Blending temperatures should not exceed 130°F.

TYPICAL PROPERTIES

Property	Result
Flash Point, C.O.C., °F (°C)	>350 (>177)
Specific Gravity @ 77°F	0.9
Density (lb/gal)	7.5
% MIU	1
Viscosity, SUS @100°F (cSt @ 100°F)	94 (20)
Acid Value (mgKOH/g)	2
Pour Point, °F (°C)	30 (-1)
Color, ASTM	1.5
Cloud Point, °F (°C)	36 (2)
Saponification	195

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