

Extreme Pressure Industrial Oils

Physical Properties and Features:

TENA-FILM EXTREME PRESSURE INDUSTRIAL OILS are high gravity oils of 100% paraffin extraction dewaxed in the refining process to prevent gumming. In the refining stage, only the better molecules of natural paraffin crude are salvaged, leaving a well-balanced, stable chain of molecules that imparts the very maximum amount of anti-wear properties, with much greater lubricity and film strength per grade than other E.P. petroleum oils. TENA-FILM EXTREME PRESSURE OILS are therefore more versatile in application.

USES:

1. Gearing – These oils are designed for enclosed gear sets having spur, herringbone, helical, bevel, spiral and worm type gears, operation under frequent shock loading or continuous heavy loading. The oxidation rate of these oils makes them ideal for long life, free from gums and sludge that clog oil passages and gear teeth and hinder pumping.

NOTE: TENA-FILM GEAR LUBE NOS. 89 AND 914 are recommended for Hypoid gears, differentials and transmissions (not automatic) and conform to government and General Motors specifications for this service.

2. Machine Tool Ways – TENA-FILM E.P. SERIES OILS cxontains a proper balance of lubricity to prevent stick-slip movement of heavily loaded tables of milling machines, planners and lathes. The Cincinnati Milling Machine Company specifies the use as tackiness agent for use in their lubricant specification. We have found an objection to this adhesive additive because it picks up dirt, chips, etc, more easily, and for this reason we do not use it in our E.P. series oils.

However, in order to best serve the needs of our customers, we will manufacture any of the E.P. series grades with the adhesive additive on minimum orders of 110 gallons. The use of the latex additive is denoted by the suffix "ST" at the end of each grade number. For example: EP-300ST.

- 3. General purpose machine tool lubrication.
- 4. Meets U. S. Steel Specification 224 and A.P.I. service requirement GL-4. TENA-FILM E.P. OILS are very resistant to oxidation and are thermally stable at high temperatures providing long term sludgefree performance. They pass the Turbine Oil Rust Test D-665 and ASTM D-2711 Demulsibility Test. This means that the oils separate from water readily so the water contamination can be drained or centrifuged.
- 5. TENA-FILM E.P. OILS do not contain any lead compounds which are common in many industrial gear oils.

SPECIFICATIONS

	EP-300		EP-500		EP-700		EP-1000		EP-1400		EP-2500	
ISO Viscosity C	brade	68		100		150		220		320		460
AGMA		2		3		4		5		6		7
Viscosity @ 100°F.,sec.,S.U.350				550		750		1200		1400		2600
Viscosity @ 210° F,sec,S.U.54.5				66		76		97		107		155
Viscosity Index, minimum95			95			95		95	95			95
Corrosion Copper Strip @ 212° F. negative		negative		negative		negative		negative		negative		
Timkin Test,Load Minimum lb 60		60		60		60		60		60		
Flash, ^o F.	420		430		450		450		470		480	
Fire, ^o F.	460		470		490		490		510		520	
A.P.I. Gravity @ 60° F. 29.1		28.8		27.5		27.0		26.7		26.0		
Acid No.	.55		.55		.55		.55		.55		.55	
Pour Point	-25		-25		-15		-10		+5		+5	

ADDITIVE TREATMENT:

- Rust inhibitor Anti-foam agent High Film strength E.P. additive (sulfur phosphorus type) Lubricity additive
- Provides an oil film capable of adhering to hot metal surfaces.
- Prevents chatter and stick-slip of machine tool tables.
- The oil film protects against Way scoring, reduces rejects and wears in heavily loaded machine tools.
- The anti-foam agent promotes quick removal of entrapped air.
- The suffix "ST" after the grade number denotes a polymeric additive for Cincinnati Milicron Way Oil specifications.
- Contains a demulsifier to prevent Way Oil leakage from emulsifying into metal working coolants.