

# NEEDLE OIL

Synthetic Industrial Oil



Beyond Synthetic™

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Needle Oil is a high-performance lubricant for industrial applications such as high speed spindles and die grinders. Needle Oil protects bearings from wear, has a low coefficient of friction to maximize energy savings and has excellent thermal and oxidation stability to minimize deposits and to extend drain intervals. It rapidly separates from water and protects bearings and other components from rust and corrosion.

## Performance Advantages:

- **Synthetic Solvency**  
Needle Oil has natural solvency to clean equipment and keep it clean.
- **Compatible with Seals**  
Needle Oil has excellent seal compatibility.
- **Compatible with Other Oils**  
Needle Oil is compatible and can be mixed with other mineral oils and most synthetic oils.
- **Ashless**  
Needle Oil is ashless to keep bearings free from deposits.
- **Environmentally Responsible**  
All components are TSCA listed and meet EPA, RCRA and OSHA requirements. It extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.

Typical Properties*	ISO Grade			
	5	10	22	32
Viscosity				
cSt @ 40°C	5.8	6.5	20.0	32.0
cSt @ 100°C	1.8	2.1	4.6	6.0
SSU @ 100°F	46	49	105	164
SSU @ 210°F	32	34	42	47
Viscosity Index	—	—	127	136
Flash °F	475	475	475	475
Fire °F	520	515	520	520
Pour °F	-70	-70	-70	-70
Evaporation Loss, %				
6.5 Hours @ 400°F	2.5	1.3	1.2	—
12 Hours @ 300°F	1.65	1.4	1.3	—
Foaming, ml				
Sequence I	Nil	Nil	Nil	Nil
Sequence II	Nil	Nil	Nil	Nil
Sequence III	Nil	Nil	Nil	Nil
Demulsibility				
40/40/0/5 Test Results	Pass	Pass	Pass	Pass
Corrosion Oxidation Test				
3 Hours @ 210°F	1a	1a	1a	1a
12 Hours @ 210°F	1a	1a	1a	1a

\*Properties are typical and may vary