

655 Non-Detergent Multi-Purpose Oil SAE 30/ ISO 100

Non-Detergent Multi-Purpose Oil is a premium quality non-detergent, anti-wear, rust and oxidation inhibited oil that is specially formulated for use in compressors, hydraulic systems and applications calling for non-detergent SAE 30 viscosity oil.

Non-Detergent Multi-Purpose Oil is formulated from the finest high viscosity index severely solvent refined, severely hydrofinished base stocks and proprietary additive system that provide the following benefits:

- **PERFORMANCE**
 - Enhanced fluid and seal life which provides reduced system maintenance.
 - Extended pump and bearing life.
 - Excellent fluid quality reserve to maintain its performance features even under severe service conditions and extended drain intervals.
 - Excellent demulsibility characteristics so water separates quickly.
 - Excellent anti-foaming and air release properties.
- **DEPOSIT PROTECTION with VarniShield™**
 - Patented additive technology designed to prevent the formation and build-up of varnish deposits.
 - Excellent resistance to oxidation and thermal degradation.
 - Dispersancy to keep sludge and varnish particles suspended and prevent them from depositing on critical internal components.
 - Superior hydrolytic stability.
- **WEAR PROTECTION**
 - Excellent film strength for increased wear protection.
 - Excellent rust and corrosion protection that extends component life and protects multi-metallurgy components.
 - Exceptional and long lasting anti-wear protection to protect system components.
 - Improved durability of non-ferrous parts.

Non-Detergent Multi-Purpose Oil also contains Micron Moly®, a liquid soluble type of moly that plates itself to sliding, rolling and rubbing metal surfaces of hydraulic and compressor systems. This plating action forms a long lasting solid lubricant film on surfaces that will withstand pressures up to 500,000 pounds per square inch. Micron Moly® not only produces a smooth finish surface, but also reduces friction between the moving parts which results in less heat being generated, lower operating temperatures, and a reduction in downtime.

TYPICAL PROPERTIES

SAE Grade	30
ISO Grade	100
AGMA Grade	3
Specific Gravity 60°F/15°C	.8862
Viscosity cSt 40°C (ASTM D-445)	90-110
Flash Point °F/°C (ASTM D-92)	450°/232°
Pour Point °F/°C (ASTM D-97)	10°/-12°
Total Acid Number (ASTM D-664)	0.91
Copper Strip Corrosion Test 3 hrs. (ASTM D-130)	1A
Rust Test (ASTM D-665), Procedure A (Distilled Water)	Pass
Procedure B (St Water)	Pass
Four Ball EP Test (ASTM D-2783), Weld Point, kg	160
Four Ball Wear Test (ASTM D-4172)(1hr/40kg/130°) Mean Scar Diameter, mm	0.4
Four Ball Wear Test (ASTM D-4172) (1hr/20kg/130°) Mean Scar Diameter, mm	0.27
Falex Continuous Load lbs. (ASTM D-3233), Failure Load, lbs.	1500
Conradson Carbon Residue (ASTM D-189), % Residue	0.3
Foam Tendency (ASTM D-892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
FZG Test (ASTM D-5182), Load Stage Pass	12
Hydrolytic Stability (ASTM D-2619), Copper Wt. Loss mg/cm ²	0.0566
Acidity of Water mg/KOH	0
Demulsibility Test (ASTM D-1401), O-W-E	40-40-0
Time, min	15
Denison Filterability Test TP-02100	
Filtration Time, without water (seconds)	146
Filtration Time with 2% water (seconds)	163
Oxidation Stability Test (ASTM D-943), Hours to TAN of 2	3500+
Sludge Tendencies (ASTM D-4310)	
Neutralization Number after 1000 hours	0.34
Insoluble Sludge, Total Copper, mg.	39.4
Total Copper, mg	0.1
Thermal Stability Test (ASTM D-2070), 168 hr/135°C, copper/Steel Catalyst	
Sludge (mg/100ml)	1.8
Copper weight loss,mg/100ml	0.2
Condition of Copper rod	3