



## **TECHNICAL DATA**

102 Barton Street, St. Louis, Missouri 63104

In-State (314) 865-4100/Out of State 800-325-9962/Fax (314) 865-4107 <http://www.schaefferoil.com>

---

### **#110 MICRON MOLY® RACING OIL SAE 30, 40 and 50 API SERVICE CLASSIFICATION SM**

Micron Moly® Racing Oil Straight Grade is a superior quality straight grade high zinc formula engine oil that is specially formulated to reduce friction and wear, increase engine efficiency and extend the engine life of high performance gasoline engines including those that contain flat tappet cams and those engines that are turbocharged or supercharged. Micron Moly Racing Oil Straight Grade is also designed for those engines that are designed to burn alcohol based racing fuels.

Micron Moly® Racing Oil Straight Grade is blended from the highest quality solvent refined, severely hydrofinished high viscosity index 100% paraffin base stocks available. These 100% paraffin base stocks provide Micron Moly® Racing Oil Straight Grade with:

1. Excellent Thermal Stability
2. High Lubricity
3. Excellent Resistance to Oxidation
4. A Naturally High Viscosity Index
5. Excellent Film Strength
6. Resistance with alcohol based fuels

Blended into these 100% paraffin base stocks is a highly advanced proprietary performance racing formula additive package that provides the following performance benefits:

- 1. Outstanding protection against the formation of high temperature deposits.**
- 2. Exceptional protection against thermal breakdown during high engine oil operating temperatures.**
- 3. Extra zinc anti-wear additives to protect flat tappet cam engines and other highly stressed engine components from excessive wear.**
- 4. Extra protection for hot running engines.**
- 5. Substantially reduced oil consumption.**
- 6. Extra protection for cold running engines in stop-and-go service.**

Continued on next page

- 7. High detergency and dispersancy to suppress the formation of deposits sludge and varnish.**
- 8. Reduced oil ageing allowing for increased drain intervals.**
- 9. A substantial reduction in ring and cylinder wear.**
- 10. Reduced bearing wear and increased bearing life.**
- 11. Excellent rust and bearing corrosion protection.**
- 12. Increased engine cleanliness.**
- 13. Superior valve train-wear protection**
- 14. A positive compression seal**
- 15. Increased engine life.**
- 16. Excellent anti-foaming properties.**

Further blended into the 100% paraffin base oils and the advanced racing formula performance additive package are two proven frictional modifiers, Micron Moly®, a liquid soluble type of Moly and Schaeffer Mfg's own proprietary additive Penetro® . These two proven frictional modifiers once plated, form a long lasting slippery tenacious lubricant film, which prevents the metal surfaces from coming into contact with each other. By preventing metal-to-metal contact, damaging frictional wear is prevented from occurring. This prevention of metal-to-metal contact and reduction in wear results in:

- \* Increased fuel economy**
- \* A low coefficient of friction**
- \* Significantly less bearing, ring, piston, cylinder and valve-train wear.**
- \* Increased engine efficiency**
- \* Increased engine durability**
- \* Increased engine life**
- \* Less down-time**
- \* Reduced maintenance costs**

Micron Moly® Racing Oil Straight Grade meets and exceeds the following specifications and manufacturers' requirements: MIL-PRE- 46152E, CID A-A-52039B, API Service Classification SM, Ford, GM, Chrysler.

Typical Properties on Next Page

**TYPICAL PROPERTIES**

SAE Grade	30	40	50
Viscosity @ 40° C, cSt (ASTM D-445)	87.5-94.5	170-180	220-230
Viscosity @ 100° C, CSt (ASTM D-445)	10.5-12.0	14.00-15.5	18.00-19.5
High Temperature High Shear Viscosity			
@ 302°F/150°C, cP (ASTM D- 4683)	3.5	4.0	4.0
Viscosity Index (ASTM D-2270)	102	100	102
Flash Point °F/°C (ASTM D-92)	455°/235°	465°/241°	500°/260°
Fire Point °F/°C (ASTM D-92)	490°/254°	500°/260°	535°/279°
Pour Point °F/°C (ASTM D-97)	0°/-18°	10°/-12.2°	20°/-6.7°
Sulfated Ash Content % WT (ASTM D- 874)	1.0	1.0	1.0
Total Base Number (ASTM D-2896)	7.5	7.5	7.5
Copper Strip Corrosion (ASTM D-130)	1a	1a	1a
NOACK Volatility %Evaporation Loss (ASTM D-5800)	10%	10%	10%
Foam Test (ASTM D-892)			
Sequence I	0/0	0/0	0/0
Sequence II	0/0	0/0	0/0
Sequence III	0/0	0/0	0/0
Sequence IV	0/0	0/0	0/0
High Temperature Foam Test (ASTM D6082 Option A)	0/0	0/0	0/0
MHT-4 TEOST (ASTM 6335)			
Deposit Weight, mg	23.8	23.8	23.8
Engine Rusting Ball and Rust Test (ASTM D-6557)			
Average Gray Value	133	133	133
Zinc Content, ppm	1800-2100	1800-2100	1800-2100
Phosphorus, ppm	1700-1850	1700-1850	1700-1850