



# 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>

## #9003 SUPREME 9000 SAE 5W-30 FULL SYNTHETIC ENGINE OIL API SM/CF

Supreme 9000 SAE 5W-30 is a premium quality full synthetic, multi-grade engine oil that is specially formulated to reduce friction and wear, increase engine efficiency, provide fuel economy benefits and extend engine life in all types of gasoline engines and diesel powered passenger cars including those that are turbocharged or supercharged.

Supreme 9000 SAE 5W-30 is blended from a unique combination of select synthetic base fluids. This unique combination provides the Supreme 9000 SAE 5W-30 with the following advantages:

1. Superior Cold Cranking and Oil Pumpability at Low Temperatures.
2. Exceptional Oxidative Stability Especially at High Engine Operating Temperatures.
3. Exceptional Resistance to Thermal Degradation.
4. Exceptional Low Volatility Characteristics That Provides Exceptional Oil Consumption Control and Prevention of the Formation of Deposits on Critical Engine Parts.
5. A High Viscosity Index.
6. Enhanced Film Strength at High Operating Temperatures
7. Low Coefficients of Traction, Which Result in Improved Fuel Economy Benefits.
8. Extended Oil Drain Capability and Intervals

Blended into the synthetic base stocks is a highly advanced proprietary performance additive package and a highly shear stable viscosity index improver. This combination provides the Supreme 9000 SAE 5W-30 with the following performance benefits:

1. **Outstanding protection against the formation of high temperature deposits.**

**Continued on Next Page**

TD-9003 (03/2010)

- 2. Outstanding protection against the formation of high temperature deposits.**
- 3. Exceptional protection against thermal breakdown during high engine oil operating temperatures.**
- 4. Rapid circulation and excellent pumpability.**
- 5. Excellent resistance to thinning at high temperatures.**
- 6. Excellent shear stability in order to help the Supreme 9000 SAE 5W-30 to stay in grade over the oil drain's interval.**
- 7. Substantially reduced oil consumption.**
- 8. Extra protection for hot running engines.**
- 9. Extra protection for cold running engines in stop-and-go service.**
- 10. Excellent high temperature/high shear performance to provide excellent oil film thickness and engine protection at high operating temperatures and shear rates, while minimizing lubricant frictional resistance.**
- 11. High detergency and dispersancy to suppress the formation of deposits, sludge and varnish.**
- 12. Reduced oil ageing allowing for increased drain intervals.**
- 13. A substantial reduction in ring and cylinder wear.**
- 14. Reduced bearing wear and increased bearing life.**
- 15. Excellent rust and bearing corrosion protection.**
- 16. Enhanced vehicle emissions control system compatibility.**
- 17. Extended vehicle emissions control system life.**
- 18. Increased engine cleanliness.**
- 19. Increased fuel economy benefits and retention for improved gas mileage during the oil's entire oil drain interval.**
- 20. Superior valve train-wear protection.**
- 21. Increased engine life.**
- 22. Excellent anti-foaming properties.**

Further blended into these synthetic base fluids, the highly advanced proprietary performance additive package and shear stability viscosity index improver 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**

Supreme 9000 SAE 5W-30 is also recommended for use in all 4-cycle air-cooled or water-cooled motorcycle and ATV engines. Supreme 9000 SAE 5W-30 can also be used in those motorcycles that have a common sump for the engine and transmission

Supreme 9000 SAE 5W-30 meets and exceeds the following specifications and manufacturers' requirements: MIL-PRF- 46152E, CID A-A-52039B, API Service Classification SM/CF, ILSAC GF-4, ACEA A1/B1-08, ACEA A5/B5-08, JIS K 2202, JASO DI-1, Ford WWS M2C929-A, General Motors 6049M, General Motors 4718M, Chrysler MS 6395M, Mercedes Benz MB 229.1 and MB 229.2

### TYPICAL PROPERTIES

SAE Grade	5W-30
Specific Gravity (ASTM D-1298)	0.86
Viscosity @ 40°C, Cst (ASTM D-445)	58.00 -73.00
Viscosity @ 100°C, Cst (ASTM D-445)	10.00 -12.00
Viscosity Index (ASTM D-2270)	160
High Temperature/High Shear Viscosity 302°F/150°C, cP (ASTM D-4683)	3.2
Cold Cranking Viscosity (ASTM D-5293) @-30°C, cP	6,000
Mini Rotary Viscosity TP-1 @ -35°, cP (ASTM D-4683)	19,500
Flash Point °F/°C (ASTM D-92)	445°/229.44°
Stable Pour Point °F/°C (FTM 7916 Method 203)	<-41°/<-42°
Total Base Number (ASTM D-2896)	7.1
Sulfated Ash Content % wt (ASTM D-874)	1.0%
Shear Stability (ASTM D-3945 Procedure A) % Viscosity Loss	5%
Copper Strip Corrosion Test (ASTM D-130)	1a
NOACK Volatility %Evaporation Loss (ASTM D-5800)	10.5%

Typical properties continued on next page

**Typical Properties Continued**

Foam Test (ASTM D-892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Sequence IV	0/0
High Temperature Foam Test (ASTM D6082 Option A)	0/0
Sequence III G	
% Viscosity increase @ 40°C	67.1%
Cam & Lifter Wear, um average	25.60
MHT-4 TEOST (ASTM 6335)	
Deposit Weight, mg	23.8
Engine Rusting Ball and Rust Test (ASTM D-6557)	
Average Gray Value	133

Packaging: #9003 Supreme 9000 SAE 5W-30 is available in 55- gallon drums, 30-gallon drums, 5-gallon pails and 12-quarts per case.