



# TECHNICAL DATA

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## #705 SUPREME 7000 SYNTHETIC PLUS RACING OIL

### SAE 20W-50

### API SM

Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 is a premium quality multi-grade para-synthetic engine oil that is specially formulated to reduce friction and wear, increase engine efficiency and extend engine life in all types of gasoline engines including those that contain flat tappet cams and those that are turbocharged or supercharged.

Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 is blended from the finest quality severely hydrotreated polyalphaolefin (PAO) synthetic base fluids and severely raffinate hydroconverted Group II Plus available. This unique combination provides Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 with the following advantages:

1. **Superior Cold Weather Startability and Operating Characteristics.** This results in less friction and lubricant drag in the engine and instant lubrication during cold weather start up.
2. **Superior Oxidative Stability.** Any oil as it is increasingly exposed to high temperature operation undergoes the process of oxidation. This results in the oils thickening and the buildup of acidic components. Because of the PAO's and Group II base oil's uniform molecular structure, the process of oxidation is greatly reduced.
3. **Excellent Resistance to Thermal Degradation.**
4. **Lower Volatility.** This results in reduced oil consumption.
5. **Lower Pour Point and Borderline Pumping Temperature.**
6. **A High Viscosity Index.** This results in minimum change in viscosity. The adequate viscosity for the proper lubrication of the engine is provided regardless of temperature.
7. **Excellent Film Strength.** This results in increased protection against wear.
8. **Compatibility with All Types of Seals.**
9. **Extended Oil Drain Capability and Intervals.**

Blended into the para-synthetic base fluids is a highly specialized performance additive package and a highly shear stable viscosity index improver. This combination provides the Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 with the following performance benefits:

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Blended into the para-synthetic base stocks is a highly advanced proprietary performance racing formula additive package and a highly shear stable viscosity index improver. This combination provides the Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 with 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. Rapid circulation and excellent pumpability.**
- 4. Excellent resistance to thinning at high temperatures.**
- 5. Excellent shear stability in order to help the Supreme 7000 Synthetic Plus Racing Oil to stay in grade over the oil drain's interval.**
- 6. Extra zinc anti-wear additives to protect flat-tappet cams from excessive wear.**
- 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 blend 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 7000 Synthetic Plus Racing Oil SAE 20W-50 is recommended for use in all 4-cycle air-cooled or water-cooled motorcycle and ATV engines. Supreme 7000 Synthetic Racing Oil SAE 20W-50 can also be used in those motorcycles that have a common sump for the engine and transmission.

Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 meets and exceeds the following specifications and manufacturers' requirements: MIL-PRE- 46152E, CID A-A-52039B, API Service Classification SM, Ford M2C153-G, ESR-M2C127-B, ESR-M2C179A, SSM 29011-A, General Motors, ACEA A1-02, A2-96 Issue 2, A3-02, A5-02; Mercedes Benz 229.1, 229.3, MS9767; JASO JIS K2215

### TYPICAL PROPERTIES

SAE Grade	20W-50
Viscosity @ 40°C, Cst (ASTM D-445)	129.5-166.5
Viscosity @ 100°C, Cst (ASTM D-445)	16.5-20.00
Viscosity Index (ASTM D-2270)	140
High Temperature/High Shear Viscosity 302°F/150°C, cP (ASTM D-4683)	5.31
Cold Cranking Viscosity (ASTM D-5293) @-15°C, cP	3,506
Mini Rotary Viscosity TP-1 @ -20°, cP (ASTM D-4683)	
MRV Borderline Pumping Temperature °F/°C (ASTM D-4683)	-15°/-26.11°
Scanning Brookfield Gelation Index @ -11°F/-24°C	3.9
Flash Point °F/°C (ASTM D-92)	465°/204.56°
Fire Point °F/°C (ASTM D-92)	505°/262.78°
Stable Pour Point °F/°C (FTM 7916 Method 203)	<-41°/<-42°
Total Base Number (ASTM D-2896)	7.5

Sulfated Ash Content % wt (ASTM D-874)	0.9
Orban Shear Stability (ASTM D-6278)	
% Loss 30 Passes	5
% Loss 90 Passes	10.3
Copper Strip Corrosion Test (ASTM D-130)	1a
NOACK Volatility %Evaporation Loss (ASTM D-5800)	7.5%
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
MHT-4 TEOST (ASTM 6335)	
Deposit Weight, mg	23.8
Engine Rusting Ball and Rust Test (ASTM D-6557)	
Average Gray Value	133
% Zinc Content	0.1519

Packaging: #705 Supreme 7000 Synthetic Plus Racing Oil SAE 20W-50 is available in 55 gallon drums, 30 gallon drums, 5-gallon pails and 12-1 quart/cases.