SINCE 1839
Schaeffer's
SPECIALIZED LUBRICANTS

TECHNICAL DATA

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ISO 9001 CERTIFIED

9003D SUPREME 9000 FULL SYNTHETIC ENGINE OIL SAE 5W-30

Supreme 9000 Full Synthetic SAE 5W-30 is a premium quality full synthetic, multi-grade engine oil that is specifically formulated to protect all gasoline fueled automobile and light duty trucks, including those that are turbocharged and/or supercharged. Supreme 9000 Full Synthetic SAE 5W-30 is suitable for use in newer low mileage, and older high mileage engines.

Supreme 9000 Full Synthetic SAE 5W-30 is blended from a unique combination of select synthetic base fluids, advanced additive package and highly shear stable viscosity index improver to provide the following advantages:

PERFORMANCE

- Extended engine life in gasoline fueled automobile and light duty truck engines
- Low volatility characteristics for less oil consumption
- Excellent resistance to oxidation and thermal breakdown
- Increased engine efficiency and fuel economy benefits
- Helps protect vehicle emission system components

DEPOSIT PROTECTION

- Excellent detergency and dispersancy for protection against sludge and varnish formation.
- Unsurpassed turbocharger protection from deposit formation
- Excellent piston and critical engine parts cleanliness
- Hydro-Ethanol inhibitors that significantly reduce the problems that can result from the use of ethanol blended fuels

WEAR PROTECTION

- Protects critical engine parts from damaging friction and wear.
- Excellent protection of turbocharged direct injection engines from damage
- Superior protection against rust and corrosion
- Substantial wear protection to reduce wear and damage to critical engine parts
  - 28% Better wear protection vs. API and GM wear limits
  - 37% Better protection against timing chain wear and elongation vs. GM limits
- Substantial reserve wear performance
- Protection from metal-to-metal contact across a wide operating temperature range.

Supreme 9000 Full Synthetic SAE 5W-30 also contains two proven frictional modifiers Micron 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 reduced which results in reduced wear, increased engine life and lower maintenance costs.

Supreme 9000 Full Synthetic SAE 5W-30 meets and exceeds the following specifications and manufacturers' requirements: MIL-PRF-46152E; CID A-A-52039B, API Service Classification SP, Resource Conserving; ILSAC GF-6A; Ford WSS-M2C946-A; Ford WSS-M2C946-B1; Ford WSS-M2C930-A; Ford WSS-M2C929-A; Ford WSS-M2C929-B1; Ford WSS-M2C961-A1; General Motors dexos1™Gen3; General Motors 6094M; Chrysler MS-6395Q, MS-9214; Toyota and Honda Service Fill Specifications, Honda/Acura HTO-06.

TYPICAL PROPERTIES

SAE Grade	**5W-30**
Specific Gravity (ASTM D1298)	0.851
Viscosity @ 40°C, cSt (ASTM D445)	62.0-71.0
Viscosity @ 100°C, cSt (ASTM D445)	11.0-12.49
Viscosity Index (ASTM D2270)	176
High Temperature/High Shear Viscosity 302°F/150°C (ASTM D4683), cP	3.32
Cold Cranking Viscosity (ASTM D5293)	
@-30°C, cP	5,104
Mini Rotary Viscosity TP-1 @ -35°, cP (ASTM D4683)	19,500
Flash Point °F/°C (ASTM D92)	445°/229.44°
Stable Pour Point °F/°C (FTM 7916 Method 203)	<-41°/<-42°
Total Base Number (ASTM D2896)	7. to 7.5
Sulfated Ash Content % wt (ASTM D874)	0.84%
Shear Stability (ASTM D3945 Procedure A)	
% Viscosity Loss	5%
Copper Strip Corrosion Test (ASTM D130)	1a
NOACK Volatility %Evaporation Loss (ASTM D5800)	7.9%
Foam Test (ASTM D892)	
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 D6335) Deposit Weight, mg	10
TEOST 33C (ASTM D6335) Deposit Weight, mg	12.4
Engine Rusting Ball and Rust Test (ASTM D6557)	
Average Gray Value	133
Sequence IIIG	
% Viscosity increase @ 40°C	130%
Average Cam & Lifter Wear, µm	9.8
% Phosphorous (ASTM D4951)	0.076