

TECHNICAL DATA

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9004 SUPREME 9000 FULL SYNTHETIC ENGINE OIL 5W-20

Supreme 9000 Full Synthetic Engine Oil 5W-20 is a premium quality, full synthetic, multi-grade engine oil that is specifically formulated to protect all gasoline fueled automobile and light duty truck engines including those that are turbocharged and/or supercharged. Supreme 9000 Full Synthetic SAE 5W-20 is suitable for use in newer low mileage, and older high mileage engines.

Supreme 9000 Full Synthetic Engine Oil 5W-20 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

- o 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
- o Increased engine efficiency and fuel economy benefits
- Helps protect vehicle emission system components

DEPOSIT PROTECTION

- o 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

- o 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 Engine Oil 5W-20, 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-20 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-M2C945-A; Ford WSS-M2C945-B1; Ford WSS-M2C930-A; Ford WSS-M2C925-A; Ford WSS-M2C960-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-20
Specific Gravity (ASTM D1298)	0.85
Viscosity @ 40°C, cSt (ASTM D445)	45.0-52.0
Viscosity @ 100°C, cSt (ASTM D445)	8.5 - 9.15
Viscosity Index (ASTM D2270)	166
High Temperature/High Shear Viscosity 302°F/150°C, cP (ASTM D4683)	2.83
Cold Cranking Viscosity (ASTM D5293)	
@-30°C, cP	4,582
Mini Rotary Viscosity TP-1 @ -35°, cP (ASTM D4683)	18.500
Flash Point °F/°C (ASTM D92)	440°/227°
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	8.2%
Copper Strip Corrosion Test (ASTM D130)	1a
NOACK Volatility %Evaporation Loss (ASTM D5800)	7.6%
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 6335)	40
Deposit Weight, mg	10
TEOST 33C (ASTM D6335)	12.4
Deposit Weight, mg	12.4
Engine Rusting Ball and Rust Test (ASTM D6557) Average Gray Value	133
Sequence IIIG	133
% Viscosity increase @ 40°C	130%
Average Cam & Lifter Wear, µm	9.8
% Phosphorous (ASTM D4951)	0.076
70 THOOPHOLOGO (NOTHED TOOT)	0.070