SINCE 1839
Schaeffer's
SPECIALIZED LUBRICANTS

TECHNICAL DATA

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ISO 9001 CERTIFIED

6020 SynShield® All Performance Full Synthetic 0W-20

SynShield® All Performance Full Synthetic SAE 0W-20 is a premium quality full synthetic, multi-grade engine oil that is specifically formulated to protect gasoline fueled automobile and light duty trucks, including those that are turbocharged and/or supercharged.

SynShield® All Performance Full Synthetic SAE 0W-20 provides superior protection for new and high mileage engines.

SynShield® All Performance Full Synthetic SAE 0W-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

- Extended engine life and oil drains
- Decreased oil consumption
- Improved oxidation stability and reduced deposits, sludge and varnish
- Increased engine fuel economy benefits
- Protects vehicle emission system components

DEPOSIT PROTECTION

- Excellent protection against sludge and varnish formation
- Unsurpassed turbocharger protection from deposit formation
- Provides excellent cleanliness for pistons and critical engine parts
- Reduction in the problems that can result from the use of ethanol blended fuels

WEAR PROTECTION

- 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
  - 29% Better wear protection vs. API and GM wear limits
- Superior Low-Speed Pre-ignition (LSPI) protection even as oil ages
- Lower timing chain and intake valve wear
  - 37% Better protection against timing chain wear and elongation vs. API and GM limits
  - 48% Lower valvetrain wear (iron ppm) vs. API and GM limits
- Protection from metal-to-metal contact across a wide operating temperature range.

SynShield® All Performance Full Synthetic SAE 0W-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.

SynShield® All Performance Full Synthetic SAE 0W-20 is formulated for use in the following applications: API Service Classification SQ, Resource Conserving; ILSAC GF-7A; MIL-PRF-46152E; CID A-A-52039B; Ford WSS-M2C947-B1 and WSS-M2C962-A1; GM dexos1® Gen3*; General Motors 6094M; Chrysler MS-6395 and MS-9214; Toyota and Honda Service Fill Specifications.

Using Schaeffer synthetic lubricants does not void your new vehicle warranty or equipment manufacturer's warranty. All Schaeffer lubricants are covered by our Limited Warranty.

**The use of OEM names, trademarks or specifications does not represent approval, recommendation, or licensing by the OEM.*

TYPICAL PROPERTIES

SAE Grade	**0W-20**
Specific Gravity (ASTM D1298)	0.85
Viscosity @ 40°C, cSt (ASTM D445)	45.0-52.0
Viscosity @ 100°C, cSt (ASTM D445)	8.0 – 9.29
Viscosity Index (ASTM D2270)	169
High Temperature/High Shear Viscosity 302°F/150°C (ASTM D4683), cP	2.6
Cold Cranking Viscosity (ASTM D5293)	
@-35°C, cP	5,419
Mini Rotary Viscosity TP-1 @ -40°, cP (ASTM D4684)	21,500
Flash Point °F/°C (ASTM D92)	455°/235°
Stable Pour Point °F/°C (FTM 7916 Method 203)	<-41°/<-42°
Total Base Number (ASTM D2896)	8.0
Sulfated Ash Content % wt (ASTM D874)	0.8%
Shear Stability (ASTM D6278)	
Minimum 6.9	7.6
Copper Strip Corrosion Test (ASTM D130)	1a
NOACK Volatility %Evaporation Loss (ASTM D5800)	10.7%
Foam Test (ASTM D892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
High Temperature Foam Test (ASTM D6082 Option A)	20/0
Engine Rusting Ball and Rust Test (ASTM D6557)	
Average Gray Value	130
% Phosphorous (ASTM D4951)	0.074