



DESCRIPTION

SynGard™ Full Synthetic Engine Oils provide the ultimate protection for passenger cars, SUVs, and light trucks manufactured or sold in North America. These oils use state-of-the-art additives and synthetic basestocks to meet the highest requirements of API and many OEMs for warranty coverage and engine protection. When used according to manufacturers recommendations, these oils are capable of extended drain intervals based on driving conditions and normal service. This product provides maximum resistance to high temp oxidation and exceptional low temp performance.

These oils are API approved and licensed with all grades meeting demanding API SP and ILSAC GF-6A requirements for wear, LSPI, volatility, and oxidation resistance as well as for improved fuel economy.

BENEFITS

- ❑ Improved fuel economy and engine cleanliness
- ❑ Improved protection against LSPI (low speed pre-ignition)
- ❑ Extended emission control and catalyst protection
- ❑ Full synthetic engine protection under extreme cold or hot temperatures
- ❑ Added oil emulsion specification for E85 vehicle protection
- ❑ Outstanding low temperature flow properties for cold weather startup
- ❑ Outstanding energy conserving properties
- ❑ Outstanding anti-wear, oxidation control and friction control

APPLICATION

- All passenger cars, light trucks and SUV's sold in North America
- Municipal fleets where maximum mileage and minimum maintenance is desired
- Performance engines including supercharged or turbocharged applications

PERFORMANCE

License & Approvals

- API - SP
- ILSAC - GF-6A in all grades, Resource Conserving
- This product meets or exceeds manufacturer recommendations for engine oils in new passenger cars.

Performance Levels

- API - SP, SN, SM and all earlier passenger car designations
- Chrysler Motors - MS6395

| TYPICAL PROPERTIES | METHOD | 0W-20 | 5W-20 | 5W-30 | 10W-30 |
|---------------------------|--------|------------|------------|------------|------------|
| ILSA - API Service Rating | D-4052 | GF-6 SP/RC | GF-6 SP/RC | GF-6 SP/RC | GF-6 SP/RC |
| API Gravity | D-1298 | 35.9 | 35.6 | 35.2 | 34.6 |
| Viscosity, cSt at 40°C | D-445 | 45.5 | 45.5 | 64.6 | 62.7 |
| Viscosity, cSt at 100°C | D-445 | 8.4 | 8.3 | 11.0 | 10.6 |
| Viscosity Index | | 165 | 159 | 163 | 160 |
| Cold Crank Simulator | D-5293 | | | | |
| -35°C | | 5,800 | - | - | - |
| -30°C | | - | 3,980 | 4,700 | - |
| -25°C | | - | - | - | 3,770 |
| Low Temp Pumping | D-4684 | | | | |
| -40°C | | 29,900 | - | - | - |
| -35°C | | - | 9,600 | 13,000 | - |
| -30°C | | - | - | - | 9,200 |
| High Temp/High Shear | D-5481 | 2.8 | 2.7 | 3.3 | 3.3 |
| Noack Volatility, % | D-5800 | 10.0 | 8.5 | 9.4 | 12.9 |
| Neutralization (TBN) | D-2896 | 8 | 7.5 | 8 | 7.5 |
| Flash Point, °C (°F) | D-92 | 228 (442) | 230 (446) | 232 (450) | 242 (468) |
| Pour Point, °C (°F) | D-97 | -43 (-45) | -39 (-38) | -38 (-36) | -36 (-33) |
| ML Reference No. | | 588887 | 587016 | 586961 | 586970 |



NOTE:

The information on this Product Data Sheet is believed to be accurate and is typical of current production.

Specifications are subject to change without notice.

This engine oil's service level is in accordance with the latest version of SAE J300 Engine Oil Viscosity Classification and SAE J183 Engine Oil Performance and Engine Service Classification.

Health And Safety Information See separate Safety Data Sheets available on request.

SynGard™ and Martin Lubricants™ are trademarks of Martin Lubricants. All other marks are property of their respective owners