

PROTECK™

Premium Protection for Today's Engines

PROTECK SYNTHETIC BLEND PASSENGER CAR MOTOR OIL



OEMS continue to advance engine designs. Proteck Lubricants are engineered to provide unsurpassed protection for today's engines and better overall value.

PROTECTION

Controls friction and wear better than the latest API requirements.¹

POWERFUL

Provides a strong film barrier to control friction, resist wear and keep metal surfaces from coming into contact.

ENDURANCE

Stands up to the heat and shearing so it extends oil life.

Proteck Synthetic Blend Motor Oil provides extra protection and peace of mind, compared with conventional oil. It provides unsurpassed protection, as follows:

- Better oxidation and deposit control. New engine design strategies for some OEMs result in higher operating temperatures and the need for greater protection.
- Additives technology that helps keep engines clean.
- Meets or exceeds U.S. and import car and light truck warranty requirements for most automotive gasoline engines currently in use.

¹ As measured against the Sequence IV Average Cam Wear Limit for API SP.

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APPLICATIONS

- Provides extra performance benefits for passenger cars, light trucks and sport utility vehicles; plus new and rebuilt engines.
- Formulated to exceed ILSAC GF-6A performance requirements.

TYPICAL PROPERTIES

| | | SYNTHETIC BLEND 5W-20 | SYNTHETIC BLEND 5W-30 | SYNTHETIC BLEND 10W-30 |
|------------------------------------------------|------------|-----------------------|-----------------------|------------------------|
| Calcium, wt. % | ASTM D5185 | 0.119 | 0.119 | 0.119 |
| Cold Cranking Simulator at [°C], cP | ASTM D5293 | 4816 [-30] | 5325 [-30] | 6200 [-25] |
| Color | ASTM D1500 | 2.5 | 2.5 | 2.5 |
| Gravity, °API | ASTM D287 | -77.08 | -85.41 | -85.56 |
| High Temperature / High Shear Vis at 150°C, cP | ASTM D5481 | 2.6 | 3.07 | 3.08 |
| Nitrogen, wt. % | ASTM D4629 | 0.081 | 0.081 | 0.081 |
| Noack Volatility, % loss | ASTM D5800 | 11.1 | 11.7 | 9.5 |
| Phosphorus, wt. % | ASTM D5185 | 0.064 | 0.064 | 0.064 |
| Pour Point, °C [°F] | ASTM D5950 | -45°C [-49°F] | -45°C [-49°F] | -42°C [-44°F] |
| Pumping Viscosity at [°C], cP | ASTM D4684 | 13,600 [-35] | 17,300 [-35] | 18,200 [-30] |
| Specific Gravity at 60°F (15.6°C) | ASTM D4052 | 0.855 | 0.8553 | 0.8688 |
| Sulfated Ash, wt. % | ASTM D874 | 0.712 | 0.712 | 0.712 |
| Sulfur, wt. % | ASTM D4951 | 0.235 | 0.235 | 0.235 |
| TBN, mgKOH/g | ASTM D2896 | 7.0 | 7.0 | 7.0 |
| Viscosity at 100°C, cSt | ASTM D445 | 8.405 | 10.28 | 10.4 |
| Viscosity at 40°C, cSt | ASTM D445 | 48.12 | 61.38 | 70.2 |
| Viscosity Index | ASTM D2270 | 151 | 167 | 134 |
| Zinc, wt. % | ASTM D5185 | 0.07 | 0.07 | 0.07 |