

PROTECK™



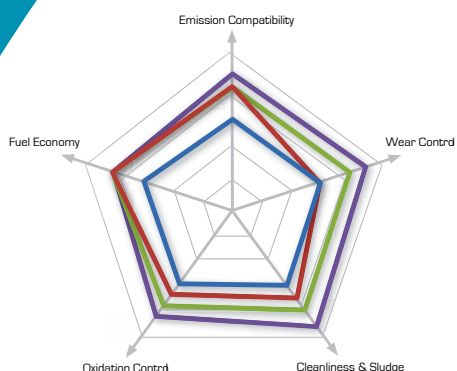
**ELITE FULL SYNTHETIC
MOTOR OILS**

PROTECK™

ELITE FULL SYNTHETIC MOTOR OILS

PROTECK™ Full Synthetic Motor Oils are state of the art, technologically advanced, synthetic motor oils which provide a high level of engine protection, even under severe operating conditions. The 100% synthetic base oils provide exceptional resistance to high temperature oxidation thickening. Sophisticated additives prevent sludge formation commonly caused by moisture and combustion by-products. Exceptionally high viscosity indices minimize cold weather oil thickening, which greatly reduces battery drain and engine wear, even at subzero start ups.

- Formulated to prevent engine wear. Even in the most severe industry test PROTECK exceeds performance limits.
- Keeps pistons cleaner, minimizing oil consumption and maintaining power and compression performance.
- Significantly outperforms the industry requirement, reducing engine sludge to near zero.
- Excellent resistance to cold start wear.
- Emission conserving protecting the car's catalyst system to help protect the environment.



— PROTECK dexos 1™

— dexos 1™

— GF-5

— GF-4

Typical Physical Properties of PROTECK Full Synthetic Motor Oils

| Viscosity Grade | Method | 0W-20 | 5W-20 | 5W-30 |
|---|------------|---------------|---------------|---------------|
| Gravity, °API | ASTM D287 | 35.36 | 34.09 | 34.19 |
| Specific Gravity @ 60°F [15.6°C] | ASTM D4052 | .848 | .8545 | .854 |
| Viscosity @ 40°C cSt | ASTM D445 | 43 | 50.47 | 61.95 |
| Viscosity @ 100°C cSt | ASTM D445 | 8.272 | 8.74 | 10.96 |
| Viscosity Index | ASTM D2270 | 171 | 152 | 171 |
| Pour Point °C [0°F] | ASTM D5950 | -45°C [-49°F] | -45°C [-49°F] | -45°C [-49°F] |
| Cold Cranking Simulator at [°C], cP | ASTM D5293 | 5300 [-35] | 5860 [-30] | 5506 [-30] |
| High Temperature/High Shear Vis at 150 °C, cP | ASTM D5481 | 2.63 | 2.83 | 3.13 |
| Noack Volatility, % loss | ASTM D6375 | 12.6 | 9.4 | 10.1 |
| Color | ASTM D1500 | 2.5 | 2 | 2 |
| Sulfated Ash, wt. % | ASTM D874 | .92 | .83 | 1.01 |
| Pumping Viscosity at [°C], cP | ASTM D4684 | 21,000 [-40] | 16,200 [-35] | 19,100 [-35] |
| TBN, mgKOH/g | ASTM D2896 | 7.9 | 8.7 | 9 |

