



# PL Select Synthetic Blend Motor Oils

PREMIUM MOTOR OILS FOR HIGH PERFORMANCE GASOLINE ENGINES

**Product Description:** PL SELECT SYNTHETIC BLEND SAE 5W-20, 5W-30 & 10W-30 API SN Motor Oils are a high performance oils designed to meet the latest car manufacturers warranty requirements. Specifically formulated to meet the demands of the small displacement high RPM fuel efficient engines found in today's domestic and foreign automobiles. These engines experience higher operating temperatures and require a motor oil which offers maximum protection against both viscosity and thermal breakdown.

PL SELECT SYNTHETIC BLEND Motor Oils are a blend of highly refined mineral base oils with special additives that protects against high temperature oxidation, wear, and viscosity breakdown. It is fortified with detergent-dispersants and rust and corrosion inhibitors to keep engines exceptionally clean and free of sludge, varnish and rust. Friction Modifiers provide reduced internal friction between moving engine parts.

## Typical Uses:

- PL SELECT SYNTHETIC BLEND SAE 5W-20, 5W-30 & 10W-30 API SN Motor Oil exceed API Service Classification SN and MIL-L-46152E and is recommended for domestic and foreign high performance engines- especially recommended for small, high RPM engines including those that are turbocharged.
- Recommended for passenger cars, light duty pickups, motorcycles and other gasoline engines in mobile and stationary service.
- Appropriate viscosity grades meets the warranty requirements of Chrysler factory fill specification, Ford Motor Co. specification ESE-M2C153-E, and General Motors specification GM 6094-M.

## Features:

- They meet and exceeds U.S. car maker warranty requirements.
- Highly oxidation stable- protects engine from oil thickening, high temperature sludge and varnish deposits.
- Shear stable viscosity index improver-protects against viscosity breakdown in severe service.
- Effective detergent-dispersants keeps engine parts clean.
- High TBN/alkaline reserve effectively neutralizes corrosive acids formed by combustion to protect critical turbo bearings and other vital engine surfaces.
- Anti-wear agents effectively protect cam lobes and other highly loaded parts from wear.

## TYPICAL INSPECTIONS

| <u>SAE Viscosity Grade</u> | <u>ASTM Test</u> | <u>5W-20</u> | <u>5W-30</u> | <u>10W-30</u> |
|----------------------------|------------------|--------------|--------------|---------------|
| Gravity, API               | D-287            | 33.9         | 34.3         | 32.5          |
| Flash Point, °F.           | D-92             | 400          | 424          | 432           |
| Fire Point, °F.            | D-92             | 425          | 444          | 450           |
| Pour Point, °F.            | D-97             | -44          | -39          | -30           |
| Viscosity:                 |                  |              |              |               |
| SUS@ 100°F.                | D-2161           | 242.6        | 325          | 390           |
| SUS@ 210°F.                | D-2161           | 54.1         | 57.5         | 56.0          |
| cSt@ 40°C.                 | D-445            | 47.6         | 64.7         | 78.0          |
| eSt@ 100°C.                | D-445            | 8.3          | 11.0         | 11.1          |
| CCS, cP                    | D-5293           | 4662         | 3200         | 6000          |
| Viscosity Index            | D-2270           | 151          | 169          | 146           |
| Color,                     | D-1500           | 3.0          | 3.0          | 3.0           |
| Sulfated Ash, Wt.%         | D-874            | 0.80         | 0.80         | 0.80          |
| Zinc, Wt.%                 |                  | 0.08         | 0.08         | 0.08          |
| TBN                        | D-2896           | 7.0          | 7.0          | 7.0           |