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## PRODUCT SPECIFICATIONS & TECHNICAL DATA

### Synthetic Motor Oil 5W-50

**PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** is manufactured from synthetic base stocks. The unique combination of high performance synthetic fluids and proprietary additive systems enables **PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** to offer advantages beyond their conventional SAE viscosity grade counterparts. Conventional mineral oils thicken or thin dramatically with changes in temperature. To compensate for this weakness, manufacturers add thickeners to conventional multi-grade oils to slow thinning as engine temperatures rise. **PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** has a naturally high resistance to changes in viscosity due to temperature and requires less of these thickeners. This results in a heavier, more stable protective oil film for engine bearings piston rings than provided by similar SAE viscosity grade mineral oils.

**PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** meets or exceeds the requirements of:

**European classifications ACEA A3/B3, A3/B4 and API SN, SM, SL, SJ.**

**PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** protects engines up to 229°C (444° F.). It contains fewer impurities, so it protects better than conventional oils in cold weather.

**PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** is fully compatible with mineral-based, conventional, and synthetic blend engine oils.

**PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL** is recommended for passenger cars, light trucks, powerboats, motorcycles and other stationary and mobile equipment when engine life and performance are important. Always consult your owners manual.

#### **BENEFITS:**

- Excellent Engine Protection during High Temperature Operation
- Extend Engine Life by Reducing Wear
- Provide Faster Cold Starts at Low Temperatures
- Improved Oil Flow
- Prevent Oil Breakdown and keeps Engines Cleaner
- Reduce Oil Consumption
- Maximum Reserve Capacity
- Excellent protection from deposits and sludge build-up at all operating temperatures.
- Excellent anti-wear, anti-foaming, anti-rust, anti-oxidants and corrosion protection.
- Wide viscosity grade helps provide combination of high and low temperature protection.

## PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL

### APPLICATIONS:

- Passenger car, light trucks, powerboats, motorcycles, stationary and mobile equipment
- When SN, SM, SL, SJ, SH, SG, SF, SE, SD or SC oils are required
- When CF oils are required
- BMW Longlife 01
- Mercedes Benz 229.3, 229.5, 229.1
- Volkswagen 501.01, 502 00/505 00
- Opel GM-LL B-025
- Renault 0700,0710
- PORSCHE A40
- Lexus LFA
- In gasoline engines and turbo-charged engines

### Typical Properties **PETROFLO BRAND 5W-50 SYNTHETIC MOTOR OIL**

<b>Specific Gravity @ 60°F</b>	<b>0.86</b>
<b>Density, lbs/gal @ 60°F</b>	<b>7.20</b>
<b>Color, ASTM D1500</b>	<b>3.0</b>
<b>Flash Point (COC), °C (°F)</b>	<b>229 (444)</b>
<b>Pour Point, °C (°F)</b>	<b>-42 (-44)</b>
<b>Viscosity, Kinematic</b>	
<b>cSt @ 40°C</b>	<b>108.2</b>
<b>cSt @ 100°C</b>	<b>18.2</b>
<b>Viscosity Index</b>	<b>180</b>
<b>Cold Cranking Viscosity, cP @ -30°C</b>	<b>5500</b>
<b>Sulfated Ash, ASTM D874, wt %</b>	<b>1.3</b>
<b>Total Base Number (TBN),</b>	<b>11.7</b>
<b>Phosphorus</b>	<b>0.10</b>

The above analyses are typical inspections only and the finished product may vary from batch to batch.