



**OUR BUSINESS IS HEAVY DUTY LUBRICANTS**

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## PRODUCT SPECIFICATIONS & TECHNICAL DATA

### *Full Synthetic Multi-Viscosity Motor Oil Specification Sheet*

**PETROFLO BRAND SYNTHETIC MOTOR OIL** is manufactured from 100% synthetic base stocks. The unique combination of high performance synthetic fluids and proprietary additive systems enables **Petro-Florida 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 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 SYNTHETIC MOTOR OIL** protects engines up to 204°C (400° F.). It contains fewer impurities, so it protects better than conventional oils in cold weather. **PETROFLO BRAND SYNTHETIC MOTOR OIL** is fully compatible with mineral-based, conventional, and synthetic blend engine oils.

#### **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

#### **APPLICATIONS:**

- Passenger car
- Light Trucks either Gasoline or Diesel Engines. Meet and/or exceed the manufacturer's requirements API service SN,SM,SL, SJ or CF.

**TYPICAL ANALYSIS**

SAE GRADE	0W-40	0W-30	5W-30	10W-30	10W-40	15W-
40						
GRAVITY, API	33.6	34.5	32.8	30.8	29.8	31.5
Specific Gravity	0.857	0.852	0.862	0.872	-	-
Pour Point © F.	-54 (-65)	-54(-65)	-45(-54)	-45 (-49)	-42(-44)	-44(-
49)						
Flash Point © F.						
ASTM D-92	232°(450°)	232°(450° )	235°(455°)	235°(455°)	227° (441°)	
234°(453°)						
VISCOSITY						
Cold Cranking	4,301 @-	3,800 @-	3,600 @-	3,848 @-	3600@	3600
@-						
CP @ ©	35°	35°	30°	25°	30	30°
Cold Pumping						
CP @ ©	21,700 @-	23,900 @-	23,900 @-	10,250 @-	-	-
Kinematic cSt @	40°	35°	35°	30°	25°	25°
Kinematic cSt @						
40° ©	80.3	54.8	53.7	61.3	95.0	00.2
100° ©	14.4	10.1	9.7	9.8	14.6	15.5
Pumpability Limit						
© F.	-47°(-53°)	-50°(-58°)	-46°(-51°)	-41°(-42°)	-46(-51)	-46°(-
51°)						
Viscosity Index	185	176	169	145	160	164
Energy Conserving	-	YES	YES	YES	-	-
Total Base Number	-	-	-	-	-	-

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

**PETROFLO BRAND SYNTHETIC MOTOR OIL OW-30 AND 10W-40** flow at 54° © and 48° © (-65 °F and -54° F and -49° F pump and temperatures lower than similar SAE viscosity grade conventional oils. Save on gasoline, exceed newest energy conserving requirements of ISLAC GF-5.

**PETROFLO BRAND SYNTHETIC MOTOR OIL OW-40** is formulated for newer European cars, especially those with advanced technology, multi-value engines. **PETROFLO BRAND SYNTHETIC MOTOR OIL OW-40** flows at -54°C / -65°F), and pumps at temperatures as low as many conventional SAE oils. **PETROFLO BRAND SYNTHETIC MOTOR OIL OW-40** can be used where an SAE OW/40, OW/30, 5W/30 or 5W/40 grade viscosity is recommended. **PETROFLO BRAND SYNTHETIC MOTOR OIL OW-40** meets ACEA A3/B3/B4-02 and the performance specifications of European automakers including **MERCEDES-BENZE, PORCH, and BMW.** **PETROFLO BRAND SYNTHETIC MOTOR OIL OW-40** also meets **MERCEDES BENZ'S 229.5** specifications.