

## **EURO SYNTHETIC**

### **PASSENGER CAR MOTOR OIL (mid SAPS) 0W-20, 0W-30, & 0W-40**

#### **Product Description**

Euro Synthetic Passenger Car Motor Oil (PCMO) are 'Mid SAPS' formulated engine oils designed to meet and perform at the highest standards required in European gasoline and light-duty diesel engines both naturally aspirated and turbocharged. These oils are intended to extend automotive life by providing engine protection against city traffic and reducing the harmful effects of high and low-temperature operations. Its backward compatibility with previous ACEA and API Specifications allows for use in older vehicles. They are blended from selected and highly refined synthetic base oils compounded to provide protection against wear and corrosion, prevent oxidative thickening, inhibit the promotion of engine acids, prevent sludge, and reduce varnish deposits. These multi-grade engine oils may be used over an extended temperature range and permit easier cold weather starting thereby minimizing the effects of engine friction at startup.

#### **Applications**

Recommended for use in modern European gasoline and diesel passenger cars, light trucks and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions. For optimum vehicle performance, operating under normal conditions, it is recommended that crankcase oil change intervals should not exceed the manufacturers requirements.

SAE 0W-30 is suitable for use in ACEA A5/B5-21, ACEA A5/B5-23, ACEA A5/B5-16, ACEA C2-16, ACEA C2-21, API SN Plus, API SP, API SP RC, BMW Longlife-12FE, Ford WSS-M2C950-A, LSAC GF-6A, MB 227.61, MB 229.61 and DTFR 15D100.

SAE 0W-40 grade is suitable for use in ACEA C3-21, ACEA C3-23, API SP, MB 229.51, MB 229.52, RN0700, RN0710.

SAE 0W-20 grade is suitable for use in ACEA C5-21, ACEA C6-23, ACEA C6-21, API SP, Ford WSS-M2C952-A1, Dexos D, MB 229.71, OV0401547-A20, API SN plus.

#### **Typical Properties**

| Properties                       | 0W-20   | 0W-30   | 0W-40   |
|----------------------------------|---------|---------|---------|
| Viscosity, cSt @ 40°C            | 41.1    | 50.1    | 76.5    |
| Viscosity, cSt @ 100°C           | 8.0     | 9.6     | 13.4    |
| Viscosity Index                  | 172     | 179     | 179     |
| Viscosity, CCS, D-5293, -35°C/cP | 5250    | 5414    | 6150    |
| Flash Point (COC), °C/°F         | 210/410 | 210/410 | 210/410 |
| Pour Point, °C/°F                | -45/-49 | -45/-49 | -45/-49 |
| Sulfated Ash, %wt                | 0.8     | 0.8     | 0.8     |
| Neutralization No., TBN-E        | 9.5     | 9.3     | 9.4     |
| Gravity, API @ 60°F              | 34.9    | 34.7    | 34.3    |

\*The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.