

PRODUCT INFORMATION

# ECOSE<sup>®</sup> PREMIUM MOTOR OILS

ECOSE<sup>®</sup> Premium Motor Oil is formulated from highly refined base oils and an advanced, thermally stable additive package designed to meet the lubricating demands and severe operating conditions in today’s higher-revving, hotter running engines. ECOSE<sup>®</sup> Premium Motor Oil meets or exceeds the latest automotive manufacturer’s requirements, including **API Performance Category SP** helping to protect against low speed pre-ignition (LSPI)<sup>1</sup> in turbocharged gasoline direct-injection engines (TGDI).

**FEATURES AND BENEFITS:**

ECOSE<sup>®</sup> Premium Motor Oil provides very good low temperature pumpability and lower phosphorus levels for improved emission system performance. In addition, they provide the following:

- Good anti-foaming characteristics and shear stability
- Resistance to thermal breakdown at high temperatures
- Excellent protection from engine sludge and varnish deposits
- Excellent anti-wear properties and bearing corrosion protection

**APPLICATIONS:**

ECOSE<sup>®</sup> Premium Motor Oil SAE 10W-40, 20W-50, 30 and 40 viscosity grades are recommended for use in gasoline engine applications where motor oils of a higher viscosity are desired, particularly in applications involving high temperatures and severe duty service such as hauling boats and camping trailers at sustained high speeds for long periods of time. ECOSE<sup>®</sup> Premium Motor Oil meets **API Service Category SP** which is specified in most new car owner’s manuals but are also suitable for use in all earlier model vehicles calling for API service SN, SM and SJ quality oils. In all cases, the car or engine manufacturer’s lubricant recommendations for API performance category and SAE viscosity grade should be followed (*consult vehicle’s owner’s manual*).

**Typical Properties**

SAE Grade	Test Method	10W-40	20W-50	30	40
Product Code		530135	530137	530163	530164
API Gravity, 60°F	ASTM D-4052	31.9	30.0	30.2	29.4
Density, lbs/gal (g/L)	Calculated	7.21	7.29	7.28	7.32
Kinematic Viscosity, cSt @ 40°C, D-445	ASTM D-445	112.0	155.0	89.5	130.0
Kinematic Viscosity, cSt @ 100°C, D-445	ASTM D-445	15.5	18.7	11.1	14.3
Viscosity Index, calculated	ASTM D-2270	146	136	110	109
Cold Cranking @ temp (°C) ,cP	ASTM D-5293	6300 @ -25	6,000 @ -15	N/A	N/A
Color	ASTM D-1500	L3.5	L3.5	L3.5	L3.5
Pour Point, (°F)	ASTM D-5949	-33	-22	-11	-7
Flash Point, COC, (°F)	ASTM D-92	458	470	465	465
Highest API Performance		SP	SP	SP	SP

*\*Note: Values shown are typical only and do not constitute a specification. Minor variations in product are to be expected in normal manufacturing. Always confirm with the original manufacturer’s recommendation for proper equipment operating requirements.*

<sup>1</sup> LSPI is a premature ignition of the air-fuel mixture in the combustion chamber. This low-speed pre-ignition is very violent and causes over pressurization of the combustion chamber that can lead to damage and failure of the piston, rings, valves, and other internal components.

**AVAILABILITY:**

ECOSE<sup>®</sup> Premium Motor Oils are available throughout Nu-Tier Brands’ marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier Brands @ 1-877-771-LUBES (5823) or visit Nu-Tier Brands.com