

# Product Information



## Monolec® Syn Engine Oil (8511-8531)

### Full Synthetic Oil with Premium Additive Package Provides Unparalleled Benefits for Gasoline Engines

To provide the best protection for your car's engine without sacrificing performance, endurance and efficiency, look no further than LE's Monolec® Syn Engine Oil. LE has harnessed the latest technology and knowledge to formulate this high-quality, high-performance, proprietary synthetic engine oil for gasoline engines.

Available in SAE 0W-20, SAE 5W-20 and 5W-30 grades, LE's Monolec Syn Engine Oil exceeds the minimum standards set by American Petroleum Institute (API), providing the ultimate combination of performance, protection, endurance and efficiency. It is a best in class 100 percent synthetic gasoline engine oil, and the secret to its superiority is the proprietary additive package designed to deliver resource-conserving fuel economy, protect emissions systems, keep engines clean, keep deposits to a minimum, and mitigates wear in Low-Speed Pre-Ignition (LSPI) conditions.

Whether you are a car enthusiast or the manager of a fleet of gasoline engines, you'll appreciate Monolec Syn Engine Oil's ability to keep your engines running for longer periods while safely extending the time between oil changes.



### Beneficial Qualities

#### Performance

- Features 100% synthetic oil with proprietary additive package
- Exhibits low volatility and low viscosity shear characteristics
- Provides excellent low- and high-temperature performance
- Exceeds performance criteria of API and most OEMs
- Outperforms commercially available passenger car engine oils

#### Protection

- Mitigates wear in Low-Speed Pre-Ignition (LSPI) conditions
- Increases gasoline engine reliability by reducing wear
- Features low-temperature flow characteristics to ensure continuous flow of oil film
- Isolates metal from rust and corrosion
- Provides superior oxidation protection

- Prevents formation of ash and other deposits, even in highly problematic areas such as ring zones
- Protects from higher temperatures found in engines with turbochargers and superchargers
- Provides superior wear protection during start-up and idle

#### Endurance

- Safely extends drain intervals when combined with LE's Xamine™ oil analysis program
- Extends oil service life
- Extends engine life

#### Efficiency

- Exceeds "Resource Conserving" guidelines for API SP engine oils
- Improves fuel economy in many newer engine configurations
- Lowers emissions and protects emission systems per API standards
- Is suitable for use with ethanol-containing gasoline up to E85

### Proprietary Additives

LE's proprietary additives are used exclusively in LE lubricants. Monolec® Syn Engine Oil contains Monolec.

**Monolec®** wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing oil film strength without affecting clearances. An invaluable component in LE's engine oils, industrial oils and many of its other lubricants, Monolec allows opposing surfaces to slide by one another, greatly reducing friction, heat and wear.





## Monolec® Syn Engine Oil

	<u>8511</u>	<u>8521</u>	<u>8531</u>
<b>Color</b>	Amber	Amber	Amber
<b>ISO VG / SAE Grade</b>	0W-20	5W-20	5W-30
<b>Relative Density @ 60°F/60°F, ASTM D1298</b>	0.845	0.845	0.845
<b>Viscosity @ 100°C, cSt, ASTM D445</b>	8.70	8.90	9.71
<b>Viscosity @ 40°C, cSt, ASTM D445</b>	45.6	47.8	54.6
<b>Viscosity Index ASTM D2270</b>	172	168	164
<b>Viscosity-HTHS @ 150°C, cP, ASTM D4683</b>	2.8	2.7	2.8
<b>Viscosity-CCS @ -30°C, cP, ASTM D5293</b>	-	3,200	3,900
<b>Viscosity-CCS @ -35°C, cP, ASTM D5293</b>	5,600	-	-
<b>Viscosity-MRV TP-1 @ -35°C, cP, ASTM D4684</b>	-	14,200	16,100
<b>Viscosity-MRV TP-1 @ -40°C, cP, ASTM D4684</b>	33,600	-	-
<b>Flash Point °C (°F), (COC), ASTM D92</b>	226 (439)	215 (419)	215 (419)
<b>Pour Point °C (°F), ASTM D97</b>	-48 (-54)	-45 (-49)	-45 (-49)
<b>Acid Number mg KOH/g, ASTM D664</b>	2.5	2.5	2.5
<b>Base Number ASTM D4739</b>	7.5	7.5	7.5

### Performance Requirements Met or Exceeded

- API SP Resource Conserving/SN Plus/SN/SM/SL/SJ
- Chrysler MS-6395
- Ford WSS-M2C946-B1 (8531), WSS-M2C945-B1 (8521), WSS-M2C947-B1 (8511)
- GM dexos1™: Gen 2, 6094M (obsolete), 4718M (obsolete)
- ILSAC GF-6A

### Typical Applications

- Personal passenger cars
- Passenger car fleets (municipal, delivery, etc.)
- Offers exceptional performance suitable for use in most OEM gasoline engines, including Honda, Ford, GM, Toyota, Chrysler, Nissan and Hyundai/Kia. Consult your owner's manual for details.

