



ULTRA SUPREME MOTOR OILS-SM

(Multigrade Passenger Car Oil, API SM-GF4)

Gasoline engines are constantly being redesigned to meet more demanding requirements. Often design improvements that yield more power and economy out of equal or smaller engines place extra stress on engine oils. Higher loading, elevated temperatures, and exhaust recirculation contribute to harmful sludge formation, piston deposits and valve train wear, which can shorten engine life. **ULTRA SUPREME SM** quality motor oils utilize high performance oil technology and have reduced zinc and phosphorus levels to extend exhaust catalyst life to provide excellent performance in current model year automotive engines.

ULTRA SUPREME SM motor oils are blended with highly refined petroleum base oils and fine additives. These high performance oils* have enhanced oxidation stability and detergency over API SL oils enabling them to deal with the high speeds and high temperatures encountered in today's engines, thereby, reducing sludge and varnish deposits. In addition, their excellent anti-wear capability protects sensitive valve train parts against wear.

Today's engines are designed to minimize oil consumption. Engine manufacturers now recommend longer drain intervals. Although this practice is environmentally friendly, it places more stress on the engine oils by reducing make-up oil. Since less make-up oil is added, additives that have become depleted are not replaced. **ULTRA SUPREME SM** quality motor oils are formulated with an extra heavy-duty additive package to provide maximum protection and enhance fuel economy over prior API and ILSAC gasoline engine oil categories.

*Some locations may offer synthetic blended oils for the 5W-20 or 5W-30 grades.

ULTRA SUPREME SM multigrade oils are formulated to provide excellent flowability. The superior flow characteristics allow **ULTRA SUPREME SM** motor oils to lubricate parts much faster at startup, thereby reducing wear.

BENEFITS:

- DESIGNED FOR MODERN GASOLINE ENGINES
- REDUCES ENGINE WEAR
- CONSERVES FUEL
- LONGER OIL DRAINS
- KEEPS ENGINES CLEAN

APPLICATIONS:

ULTRA SUPREME SM multigrade motor oils are recommended for all gasoline engines. They meet or exceed the following requirements.

- API SM
- ILSAC GF-4 Energy Conserving
- CID-A-A-52039B
- GM 4718M (10W-30)
- Ford M2C930-A or M2C153-H (5W-20)
- Ford M2C929-A (5W-30)
- DaimlerChrysler MS 6395-N

ULTRA SUPREME SM oils also meet or exceed most specifications of passenger car manufacturers calling for a 5W-20, 5W-30 or 10W-30 motor oil**.

**DaimlerChrysler MS 10797 is a separate specification for 5W-20 factory fill oil for flexible fuel vehicle. It has additional requirements over API SM/GF-4 oils.



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TYPICAL CHARACTERISTICS

ISO Viscosity Grade	5W-20	5W-30	10W-30
API/ILSAC Service Categories	SM/GF4	SM/GF4	SM/GF4
Product Code	11460	11461	11462
API Gravity (ASTM D-1298)	32.7	33.2	31.4
Viscosity (ASTM D-445):			
cSt @ 40°C	41	58	65
cSt @ 100°C	7.5	10	10.5
SUS @ 100°F	209	295	340
SUS @ 210°F	51	60	62
Brookfield Viscosity (D-5293)			
cPs @ -30°C, max.	6,600	6,600	N/A
cPs @ -25°C, max.	N/A	N/A	7,000
Viscosity Index (ASTM D-2270)	152	160	145
Pour Point (ASTM D-97) °F (°C)	-40 (-40)	-35 (-39)	-25 (-32)
Flash Point (ASTM D-92) °F (°C)	320 (165)	320 (165)	410 (210)
Phosphorus content, ppm	770	770	770
TBN (ASTM D-2896)	7.1	7.1	7.1

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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