



Technical Product Information

FULLY SYNTHETIC OILS

A PREMIUM MOTOR OIL FOR HIGH PERFORMANCE GASOLINE ENGINES - API SM, ILSAC GF-4

Product Description: **FULLY SYNTHETIC MOTOR OILS** are high performance oils designed to meet the latest car manufacturers warranty requirements. Specifically formulated to meet the demands of the small displacement high RPM fuel efficient engines found in today's domestic and foreign automobiles. These engines experience higher operating temperatures and require a motor oil which offers maximum protection against both viscosity and thermal breakdown.

These oils are a blend of the Synthetic premium base oils and special additives which protects against high temperature oxidation, wear, and viscosity breakdown. It is fortified with detergent-dispersants and rust and corrosion inhibitors to keep engines exceptionally clean and free of sludge, varnish and rust.

They meet the performance of API, ACEA and European OEM specifications.

Features:

- Grade 0W20, 5W20 & 5W30 meets and exceeds OEMs warranty requirements.
- Highly oxidation stable - protects engine from oil thickening, high temperature sludge and varnish deposits.
- Shear stable viscosity index improver-protects against viscosity breakdown in severe service.
- Effective detergent-dispersants keeps engine parts clean.
- Improved fuel economy means better gasoline mileage.
- High TBN/alkaline reserve effectively neutralizes corrosive acids formed by combustion to protect critical turbo bearings and other vital engine surfaces.
- Anti-wear agents effectively protect cam lobes and other highly loaded parts from wear.

Typical Uses:

- Synthetic 0W20 Motor Oil exceeds API Service Classification SM, ILSAC GF-4 and ACEA A1-02 requirements.
- Synthetic 5W20 Motor Oil exceeds API Service Classification SM/CF, ILSAC GF-4 and ACEA A1-02 requirements.
- Synthetic 5W30 Motor Oil exceeds API Service Classification SM/CF, ILSAC GF-4, ACEA A1-02 and GM Corvette 4718M requirements.
- Recommended for Passenger Cars, light diesel, motorcycles and other mobile and stationary service engines.

Typical Specifications:

SAE Viscosity Grade	ASTM Test	0W-20	5W-20	5W-30
Gravity °API	D-287	35.2	35.0	33.5
Flash Point, °C.	D-92	200	200	200
Pour Point, °F.	D-97	-40	-38	-30
Viscosity:				
cST @ 100° C.	D-445	7.10	7.20	11.5
CCS @ -35° C.	D-5293	5900	-	-
CCS @ -30° C.	D-5293	-	5000	4300
Viscosity Index	D-2270	160	150	155
Appearance	Visual	B&C	B&C	B&C
Sulfated Ash, Wt.%	D-874	1.0	1.0	1.0
Phos, Wt.%		0.075	0.075	0.075
TBN	D-2896	8.9	8.9	8.9

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY