

Product	Sinopec Fully Synthetic Engine Oil SM/CF 0W-50
Summary	Product description Sinopec Fully Synthetic Engine Oil SM/CF 0W-50 is a super-premium product formulated with fully synthetic base oils and advanced high-quality multifunctional additive technology. It provides excellent oxidation resistance, deposit and wear protection, coupled with low-temperature performance for service in a wide range of high-performance automotive petrol engines, and light-duty diesel engines. It is particularly suitable for high-speed applications and the severe service conditions associated with stop-start driving.

Applications

Sinopec Fully Synthetic Engine Oil SM/CF 0W-50 is suitable for use in:

- Fuel-injected, turbocharged and supercharged petrol engines.
- High-performance petrol engines in passenger cars, racing cars and coaches.
- Turbocharged, intercooled, direct-injection light-duty diesel engines fitted to vans and light commercial vehicles.
- Suitable for older model passenger cars and vans.

Features and benefits

- The combination of high viscosity index, fully synthetic base oils and advanced additive technology inhibits the formation of engine sludge, reducing oil thickening, thereby keeping the product in grade for longer, extending oil life and allowing longer oil drain intervals.
- Low oil evaporation loss leads to reduced oil consumption and reduced exhaust emissions.
- Excellent antiwear performance protects against engine wear and prolongs engine service life.
- Wide oil viscosity range protects engine parts operating at both high and low temperatures.
- Excellent high-temperature, high-shear properties ensure oil viscosity is maintained under severe service conditions, protecting the engine from wear.
- Good elastomer compatibility ensures longer gasket and seal life, and prevents oil leakage.

Product Data Sheet

Typical data

Sinopec Fully Synthetic Engine Oil SM/CF 0W-50	
SAE grade	0W-50
Kinematic viscosity, ASTM D 445	
cSt @ 100°C	17.61
Dynamic viscosity, CCS, ASTM D 5293	
cP @ -35°C	6190
High-temperature, high-shear viscosity (HTHS), ASTM D 4683	
cP @ 150°C	4.5
NOACK volatility, ASTM D 5800	11
Total base number, mg KOH/g, ASTM D 2896	8.4
Pour point, °C, ASTM D 97	-50
Flash point (COC), °C, ASTM D 92	232
Density @ 20°C, kg/l, ASTM D 4052	0.841

These data are given as an indication of typical values and not as exact specifications.

Industry and OEM specifications

Sinopec Fully Synthetic Engine Oil SM/CF 0W-50 meets the performance requirements of the following industry specifications:	
API Service Classification	Petrol/Gasoline: SM, SL and earlier specifications
	Diesel: CF and earlier HDDEO specifications
GB ¹	11122-2006 (CF)
Sinopec Fully Synthetic Engine Oil SM/CF 0W-50 holds the following formal industry approvals/licences:	
API Service Classification	Petrol/Gasoline: SM

¹ Note: 'GB' standards are the National Standards of the People's Republic of China.

Sinopec Fully Synthetic Engine Oil SM/CF 0W-50 meets the performance requirements of the following OEM specifications:	
Audi	Suitable for use in Audi 8 series
BMW	Suitable for use in BMW 7 series
Mercedes Benz	Suitable for use in Mercedes Benz S class

Product Data Sheet

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

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