

Product	<b>Sinopec Synthetic Petrol Engine Oil SM/CF 5W-40</b>
Summary	<b>Product description</b> Sinopec Synthetic Petrol Engine Oil SM/CF 5W-40 is a premium product formulated with fully synthetic base oils and high-quality multifunctional additive technology. Its ultra-cleaning formula protects the engine from sludge, even when driven in modern stop-start traffic conditions, ensuring optimum engine performance.

## Applications

Sinopec Synthetic Petrol Engine Oil SM/CF 5W-40 is suitable for use in:

- Fuel-injected petrol engines equipped with catalytic converters.
- High-performance passenger cars, racing cars and coaches equipped with multi-valves, turbochargers and direct-injection engines.
- Turbo-charged, intercooled, direct-injection, light-duty, diesel engines fitted with catalytic converters.

## Features and benefits

- The combination of high viscosity index, 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.
  - Developed especially to protect and extend the life of three-way catalytic converters.
  - 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

<b>Sinopec Synthetic Petrol Engine Oil SM/CF</b>	
SAE grade	5W-40
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	81
cSt @ 100°C	15.5
Dynamic viscosity, CCS, ASTM D 5293	
cP @ -30°C	4,800
High-temperature, high-shear viscosity (HTHS), ASTM D 4683	
cP @ 150°C	3.71
Viscosity index, ASTM D 2270	204
NOACK volatility, ASTM D 5800	12.7
Sulfated ash, wt%, ASTM D 874	0.79
Phosphorus, wt%	0.074
Sulfur, wt%	0.21
Total base number, mg KOH/g, ASTM D 2896	7.61
Pour point, °C, ASTM D 97	-41
Flash point (COC), °C, ASTM D 92	230
Density @ 15°C, kg/l, ASTM D 4052	0.852

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

## Industry and OEM specifications

<b>Sinopec Synthetic Petrol Engine Oil SM/CF meets the performance requirements of the following industry specifications:</b>	
ACEA	A3-02
API Service Classification	Petrol/Gasoline: SM, SL and earlier specifications
	Diesel: CF and earlier HDDEO specifications
GB <sup>1</sup>	11122-2006 (CF)
Sinopec	Q/SH PRD 150-2008 (SM)
<b>Sinopec Synthetic Petrol Engine Oil SM/CF holds the following formal industry approvals/licences:</b>	
API Service Classification	Petrol/Gasoline: SM

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

# 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.

The SINOPEC trademark is registered and protected in Australia.

Issued: September 2011

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