

Product	Sinopec JUSTAR J500 SM/CF Engine Oil
Summary	Product description Sinopec JUSTAR J500 (SM/CF) Engine Oil is formulated with highly refined, hydrocracked base oils and a high-quality multifunctional additive package. This multipurpose oil provides effective protection for gasoline or diesel engines, especially those operating at high ambient temperatures..

Applications

Sinopec JUSTAR J500(SM/CF) Engine Oil is suitable for use in:

- A wide range of gasoline engines, especially those of the major vehicle manufacturers, operating at high ambient temperatures.
- Direct and indirect injection diesel engines, which may be naturally aspirated, turbocharged or supercharged, working under high loads.
- Engines requiring an API SM/CF quality oil.

Features and benefits

- The high viscosity index oil protects gasoline and diesel engines operating at high ambient temperatures, and also ensures excellent performance is sustained at lower temperatures.
- The formulation contains detergents and dispersants, which prevent the formation of sludge and deposits, keeping the engine clean and reducing energy loss due to frictional wear.
- Good oxidation stability prevents oil degradation at high temperatures, and extends oil service life.
- Outstanding corrosion resistance, protects the engine and extends its life.
- Excellent antiwear properties prevent engine wear.
- Catalyst compatibility ensures the effective performance of three-way catalytic converters (TWC).
- Good elastomer compatibility ensures longer gasket and seal life, and prevents oil leakage.
- Suitable for mixed fleet use, reducing stock inventory costs.

Product Data Sheet

Typical data

Sinopec JUSTAR J500 SM/CF Engine Oil				
SAE grade	10W-30	10W-40	15W-40	20W-50
Kinematic viscosity, ASTM D 445				
cSt @ 40°C	67.82	95.78	119.3	175
cSt @ 100°C	10.91	14.59	14.53	18.8
Dynamic viscosity, CCS, ASTM D 5293				
cP @ -15°C	-	-	-	8000
cP @ -20°C	-	-	4850	-
cP @ -25°C	3830	4990	-	-
High-temperature, high-shear viscosity (HTHS), ASTM D 4683 cP @150°C	3.02	3.69	-	-
NOACK volatility, ASTM D 5800	5.9	8.4	10.2	11.0
Sulfated ash, wt%, ASTM D 874	0.78	1.03	-	-
Total base number, mg KOH/g, ASTM D 2896	6.37	7.97	7.19	7.12
Pour point, °C, ASTM D 97	-40	-36	-30	-24
Flash point (COC), °C, ASTM D 92	232	234	228	234
Density @ 20°C, kg/l, ASTM D 4052	0.851	0.856	0.871	0.881

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

Industry and OEM specifications

Sinopec JUSTAR J500 SM/CF Engine Oil meets the performance requirements of the following industry specifications:	
API Service Classification	Petrol/Gasoline: SM and earlier specifications
	Diesel: CF and earlier HDDEO specifications
GB ¹	11122-2006 (CF)
Sinopec	Q/SH PRD 0474-2012 (SM)
Sinopec JUSTAR J500 SM/CF Engine Oil 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.

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.

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