

Product	Sinopec Heavy Duty Open Gear Oil
Summary	Product description Sinopec Heavy Duty Open Gear Oil is formulated with high-quality base oils, a multifunctional additive system and additional graphite, for use in large, slow-moving open gears, steel cables and wire ropes. The product does not contain asphaltic material, heavy metals or chlorine compounds, and does not require dilution with an organic solvent prior to use, so is environmentally responsible and does not pose a health hazard. Available in four ISO viscosity grades: 150, 220, 320 and 460.

Applications

Sinopec Heavy Duty Open Gear Oil is suitable for use in:

- Large, slow-moving open gears, semi-closed gears, steel cables and wire ropes, operating in severe conditions and exposed to the environment.
- Applications such as open gears (girth gear and pinions) in tube mills, rotary kilns, sintering material mixers, overflow mills, log and stem debarkers, and similar equipment used in the cement, power, steel, and pulp and paper industries.
- Applications fitted with industrial automatic lubrication systems, such as those manufactured by Lincoln, Farval and Vogel, which automatically spray lubricant onto open gears.

Features and benefits

- Excellent adhesive properties ensure that the product sticks onto the surfaces of open gears and steel cables and is resistant to wash-off by water.
- Good antiwear and extreme pressure properties protect gear surfaces from wear when exposed to heavy or shock loads, and so extend equipment life.
- The graphite provides additional residual lubrication to metal surfaces, when operating under boundary lubrication conditions, and prevents scuffing and scoring (for example, in applications where vibration or oscillation may cause liquid lubricants to be squeezed out from between gear teeth).
- Anticorrosion properties protect gear teeth, and steel cables, from corrosion and wear in difficult open environmental conditions, extending component life.
- Good fluidity, even at low temperatures, ensures ease of application, whether applied manually or via an automatic lubrication system.
- Environmentally responsible formulation contains no asphaltic materials, organic solvents, heavy metals or chlorine compounds, and ensures no health hazard to equipment operators.

Product Data Sheet

Typical data

Sinopec Heavy Duty Open Gear Oil				
ISO viscosity grade	150	220	320	460
Kinematic viscosity, ASTM D 445				
cSt @ 100°C	151.6	234.0	303.5	461.3
Four ball EP, weld load, kg, ASTM D 2783	400	400	400	400
Pour point, °C, ASTM D 97	-9	-9	-9	-9
Flash point (COC), °C, ASTM D 92	236	242	239	258
Density @ 20°C,kg/l, ASTM D 4052	0.8988	0.8956	0.8966	0.8970

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

Industry and OEM specifications

Sinopec Heavy Duty Open Gear Oil meets the performance requirements of the following industry specifications:	
ISO	6743-6 L-CKM
AGMA	9005-E02 14R (ISO 460)

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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