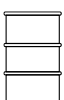


Product	Sinopec AP-S Industrial Gear Oils
Summary	Product description SINOPEC AP-S Industrial Gear Oils are fully synthetic (PAO) advanced heavy duty industrial gear oil. In the harsh working conditions they still can provide excellent lubrication protection with low friction, longer service life and anti-micro-pitting performance.

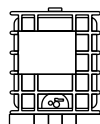
Available sizes



PAIL – 20L



DRUM – 200L



IBC – 1000L



Also
available
in bulk

Applications

- Suitable for lubrication of spur gear, helical gear, bevel gear and bearing of industrial equipment and ship with heavy load and impact load under harsh environment temperature; recommended for applications requiring long service life, little maintenance or very difficult maintenance system.
- Widely applied in steel, coal, electricity, petrochemical, and papermaking areas, such as the reduction gearbox of conveyor, coal mill, extruder, blender mixer, macerator and other gearbox of heavy equipment.
- Suitable for marine propeller, deck winch, crane, steering gear, etc.; the reducer of excavator, dragline, electric-wheeled self-dumping trucks and other equipment in mining and earthmoving.

Features and benefits

- Unique anti-micro-pitting ability for gear sets, reducing the risk of premature damage.
- Excellent load carrying capacity and anti-wear properties, minimizing the friction of steel-steel compounds, ensure trouble-free operation.
- Outstanding thermal property, reduce the formation of oxides at high temperatures. Excellent protection of the gear under severe high or cold temperatures.
- Excellent resistance to corrosion and rust, and very good demulsibility.
- Long service life compared with the conventional industrial gear oil, greatly prolong the maintenance period.

Product Data Sheet

Typical data

Sinopec AP-S Industrial Gear Oils					
ISO viscosity grade	150	220	320	460	680
Kinematic viscosity, ASTM D 445					
cSt @ 40°C	154.2	226.5	335.6	472.1	685.4
cSt @ 100°C	21.86	30.69	43.66	60.65	85.02
Viscosity index, ASTM D 2270	168	178	188	201	212
Pour point, °C, ASTM D 97	-49	-46	-43	-39	-36
Flash point (COC), °C, ASTM D 92	244	252	258	262	265
Copper corrosion, 3 hours @ 100°C, ASTM D130	1b	1b	1b	1b	1b
Rust prevention, ASTM D 665 A & B	pass	pass	pass	pass	pass
Four ball EP, weld load, N, ASTM D 2783	3087	3087	3087	3087	3087
Timken OK load, lb, ASTM D 2782	60	60	60	60	60
FZG scuffing test, fail load stage A/8.3/90, ASTM D5182	12+	12+	12+	12+	12+
FZG micropitting test, fail stage/GFT class, FVA 54	10/high	10/high	10/high	10/high	10/high

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

Industry and OEM specifications

Sinopec AP-S Industrial Gear Oils meets the performance requirements of the following industry specifications:	
AIST (US Steel)	224
ANSI/AGMA	9005-E02 (EP)
DIN	51517 Part 3 (CLP)
ISO	12925-1 L-CKT
Fives Cincinnati	P-77 (ISO VG 150), P-74 (ISO VG 220), P-59 (ISO VG 320), P-35 (ISO VG 460), P-34 (ISO VG 680)

Sinopec AP-S Industrial Gear Oils holds the following OEM approvals:	
SIEMENS Flender	T7300 Table A-c (ISO VG 220/320/460/680)
GE Specification	D50E35 A/B/C/D/E (ISO VG150/220/320/460/680)
Bosch Rexroth	Lube Oil Recommendations Appendix A (ISO VG 220)
Eickhoff	QSV19.0002(ISO VG 220/320/460)

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 Data Sheet

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: April. 2022

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