

Product	Sinopec Anti-ammonia Turbine Oil
Summary	Product description Sinopec Anti-ammonia Turbine Oil is a line of steam turbine oils formulated with highly refined mineral oil and specially selected additives, and available in ISO viscosity grades 32 and 46. Specially designed for use in turbine systems that come into contact with ammonia, such as those used in the fertiliser industry.

Applications

Sinopec Anti-ammonia Turbine Oil is suitable for use in:

- Steam turbines that come into direct contact with ammonia, for example those used in the fertiliser industry.

Features and benefits

- The highly refined base oil together with specially selected additives resist attack by ammonia and prevent damaging ammonia compounds being formed within the oil, which could otherwise damage bearings and cause system blockages.
- Good oxidation stability prolongs the service life of the oil and increases service intervals.
- Good air release properties protect against air entrainment and ensure optimum oil film thickness, protecting equipment components.
- Good antifoaming properties avoid the build up of foam, and reduce oil leakage from the system.
- Good water separation properties ensure that any water contamination can be easily separated from the oil, protecting equipment against rusting and corrosion and extending oil life.
- Anti-rust and corrosion prevention properties further protect equipment from rusting and corrosion, and extend equipment life.

Product Data Sheet

Typical data

Sinopec Anti-ammonia Turbine Oil		
ISO viscosity grade	32	46
Kinematic viscosity of base oil, ASTM D 445		
cSt @ 40°C	30.27	45.36
cSt @ 100°C	5.382	6.649
Viscosity index of base oil, ASTM D 2270	112	98
Demulsibility @ 54°C, time to 3 ml emulsion, min, ASTM D 1401	5	7
Neutralisation number, mg KOH/g, ASTM D 974	0.02	0.02
Oxidation stability, time to 2 mg KOH/g, hours, ASTM D 943	2,500+	2,500+
Rust prevention, ASTM D 665		
distilled water	pass	pass
Water content, wt%	none	none
Pour point, °C, ASTM D 97	-21	-27
Flash point (COC), °C, ASTM D 92	223	225
Density @ 15°C, kg/l, ASTM D 4052	0.8579	0.8774

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

Industry and OEM specifications

Sinopec Anti-ammonia Turbine Oil meets the performance requirements of the following industry specifications:	
SH/T ¹	0362

¹ Note: 'SH/T' standards are standards of the People's Republic of China.

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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