



Turbo Compressor Oil 46

High performance ammonia turbo compressor lubricant

Product Data Sheet

Product description

Turbo Compressor Oil 46 is a high performance rust and oxidation inhibited lubricant specially designed for the lubrication of turbo compressors in ammonia compression systems.

Turbo Compressor Oil 46 is formulated with a special non-acidic rust inhibitor designed to help resist harmful ammonia soap formation in high speed gearboxes and couplings.

Customer benefits

- Non-acidic rust inhibitors help prevent the formation of harmful soap deposit formation in high speed gearboxes and couplings
- Aids rust prevention in turbines, compressor couplings and other precision components, helping maintain uptime
- High performance oxidation stability aids resistance to oil breakdown in the presence of high temperature ammonia and moisture
- Air release and foam suppression performance contribute to smooth system operation and air-lock prevention in circulation pumps
- Rapid water separation promotes efficient lubrication, wear and corrosion protection, helping reduce system downtime
- Suitable for other, less demanding operations, including air, carbon dioxide and nitrogen compression and steam turbine lubrication

Applications

- Combined lubrication systems of turbine-driven rotary compressors pressurising ammonia or syngas for ammonia production, including turbine bearings, speed increasers, flexible couplings and oil seals
- Other ammonia plant applications where turbine oils are specified, such as in the compression of air, carbon dioxide or nitrogen
- Steam turbines operating under a wide range of service conditions

Product highlights:

- Harmful ammonia soap deposit protection
- Rust prevention in turbines and compressor couplings
- High performance oxidation stability
- Air release and foam suppression performance
- Rapid water separation

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- Industrial gas turbines operating under moderate service conditions where the oil is not exposed to excessively high temperatures
- Not recommended for use in breathing air compressors

Typical test data

TURBO COMPRESSOR OIL 46		
TEST	TEST METHODS	RESULTS
Viscosity Grade		46
Product Code		520051
Kinematic viscosity, 40°C, mm ² /s	ASTM D445	44.65
Kinematic viscosity, 100°C, mm ² /s	ASTM D445	6.76
Viscosity Index	ASTM D2270	105
Flash Point COC, °C	ASTM D92	230
Inertness to ammonia		
- Sludge, m%		0.02
- Acid Nr., mgKOH/g		0.17
Pour Point, °C	ASTM D97	-12

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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