

# Turbo Compressor Oil 46

High performance ammonia turbo compressor lubricant



## 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 and product features

### 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.

### Product features

- 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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## 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.
- 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.

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## Typical test data

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

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

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