

# Cetus<sup>®</sup> PAO

## Synthetic Air Compressor Oil



### Product description

Cetus<sup>®</sup> PAO oil is a premium performance, synthetic compressor oil based on polyalphaolefin technology.

### Customer benefits and product features

#### Customer benefits

- **Extended oil service life**  
Outstanding oxidation stability of the polyalphaolefin base fluid and inhibitor system resists oil breakdown at the elevated temperatures encountered in compressor service, permitting oil drain intervals to be extended beyond those achieved with conventional lubricants.
- **Protects equipment**  
Polyalphaolefin base fluid helps to provide an effective oil film to protect highly loaded parts against wear under high temperature operating conditions, as well as during low temperature start-up. Effective inhibitor system provides excellent rust and corrosion protection. Anti-wear additive minimizes wear under severe operating conditions.
- **Smooth operation**  
Outstanding thermal and oxidation stability enables the polyalphaolefin lubricant to resist deposit formation in the heat of the compression cycle, even under severe service conditions.
- **Extended range of applications**  
High viscosity index and low pour point of the polyalphaolefin base fluid permits application in a wider range of ambient operating temperatures compared with conventional lubricants.

#### Product features

- Cetus PAO contains a rust and oxidation inhibitor system plus anti-wear additives to provide outstanding oxidation resistance and corrosion protection.
- Cetus PAO minimizes wear under severe operating conditions.

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### Applications

- Flooded screw compressors.
- Rotary air compressors.
- Reciprocating air compressors.
- Medium-speed marine diesel engine turbochargers.

Not recommended for use in breathing air compressors.

### Approvals, performance and recommendations

- DIN 51506 VDL
- ABB approval for VTR.4 turbochargers with rolling-contact bearings, per VTR.4-4-010, as a specially tested synthetic oil for heavily loaded turbochargers, up to 5,000 hour drains (ISO 68).
- Cetus PAO has been used successfully in the lubrication of many types of air compressors, including Atlas Copco units.

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### Service considerations

Cetus PAO is designed to meet the requirements of modern higher output, more efficient compressors, particularly flooded screw air compressors. In flooded screw compressors, as well as some other rotary air compressors, the lubricant is subjected to the high temperatures produced by compression whilst also being mixed with the air being compressed. The higher temperatures encountered in rotary air compressors and the mixture of the air with the lubricant within the compressor means that oxidation of the lubricant significantly reduces the useful life of mineral oil based compressor lubricants. Cetus PAO is specifically formulated to provide excellent oxidation resistance under the conditions encountered in flooded rotary air compressors, i.e. high temperatures and exposure to the compressed air.

Cetus PAO is compatible with conventionally formulated mineral oil based and diester based lubricants, although excessive dilution with petroleum product will reduce the thermal and oxidation stability of the synthetic polyalphaolefin lubricant. Close monitoring of the compressor lubricant is advised after conversion from a mineral oil based lubricant. It is expected that non-metallic components used for mineral oil based lubricated equipment will be compatible with Cetus PAO, however where doubt exists the equipment manufacturer should be consulted concerning compatibility with polyalphaolefin based lubricants.

Cetus PAO is not compatible with polyalkylene glycol or silicone based compressor lubricants, nor is it recommended for the compression of hydrocarbon gases.

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### Typical test data

CETUS <sup>®</sup> PAO				
ISO Grade	32	46	68	100
Product Code	540539	540536	540537	540538
Flash Point, COC, °C	230	232	240	260
Pour Point, °C	-46	-57	-52	-49
Viscosity,				
mm <sup>2</sup> /s @ 40°C	32	46	68	100
mm <sup>2</sup> /s @ 100°C	6.12	8.1	10.3	14.0
Viscosity Index	134	136	141	142

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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](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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