



Cetus[®] PAO

Synthetic Air Compressor Oil

Premium performance, synthetic compressor oil based on polyalphaolefin technology and containing a rust and oxidation inhibitor system and anti-wear additive to give outstanding oxidation resistance and corrosion protection plus minimizing wear under severe operating conditions.

APPLICATIONS

- Flooded screw compressors
 - Rotary air compressors
 - Reciprocating air compressors
 - Medium-speed marine diesel engine turbochargers
- Not recommended for use in breathing air compressors.

PERFORMANCE STANDARDS

- Atlas Copco ECB 573 for use in GR and GR Pack screw compressors
- DIN 51506 VDL
- MaK turbochargers (ISO 68)
- ABB turbochargers (ISO 68)

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex 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 www.caltexoils.com.

KEY PROPERTIES

ISO Grade	32	46	68	100
Flash Point, COC, °C	246	249	260	260
Pour Point, °C	<-50	<-50	-48	-45
Viscosity,				
mm ² /s @ 40°C	33.9	49.2	68.7	107
mm ² /s @ 100°C	6.14	8.05	10.4	14.5
Viscosity Index	130	135	138	139

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.

✦ Minimum maintenance and downtime

Polyalphaolefin base fluid ensures 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 under all conditions. Anti-wear additive minimizes wear under severe operating conditions.

✦ Trouble-free operation in severe service

Outstanding thermal and oxidation stability enables the polyalphaolefin lubricant to resist deposit formation in the heat of the compression cycle, even under the most severe service conditions.

✦ Extended range of applications

High viscosity index and low pour points of the polyalphaolefin base fluid permits application in a wider range of ambient operating temperatures than with conventional lubricants.

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This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by ChevronTexaco Global Lubricants Solutions

A ChevronTexaco Product



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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 other rotary air compressors, the lubricant is subjected to the high temperatures produced by compression while 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 at the high temperatures and exposure to the compressed air encountered in rotary compressors.

Cetus PAO is compatible with conventionally formulated mineral oil based and diester based lubricants oils, 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 (refer to Caltex Synlube 140).