

Product description

Cetus[®] PAG is a premium performance synthetic gas compressor lubricant formulated with Polyalkylene glycol and designed for use in enclosed pattern gas compressors where the crankcase and bearings operate in a hydrocarbon or chemical gas-filled atmosphere.

Cetus[®] PAG is designed to maintain a high level of insolubility in this gas-filled environment helping avoid dilution and the significant drop in oil viscosity and lubricant protection this can cause, making it suitable for marine service on vessels carrying specialist liquefied gas cargoes.

Customer benefits and product features

Customer benefits

- **Robust formulation** offering reliable lubricant service life
- Helps **minimise gas solubility** in hydrocarbon and chemical gas-filled atmospheres, promoting improved compressor wear protection
- Helps **reduce foaming and provide efficiency operation** improvement in gas compressor application
- Designed for **multi-gas service** across a wide range of gases including vinyl chloride and butadiene
- Formulated to **resist the dimerisation** of butadiene and to help prevent the generation of solid deposits
- Suitable for marine service on vessels carrying specialist liquefied gas cargoes

Applications

- Enclosed pattern gas compressors in hydrocarbon and chemical gas compression applications, where the crankcase and bearings operate in a gas-filled atmosphere
- Marine service on vessels carrying specialist liquefied gas cargoes
- Suitable for use with the following gases:
 - Liquefied petroleum gases such as propane and butane
 - Liquefied natural gases such as methane and ethane
 - Hydrocarbon chemical gases such as ethylene, propylene and butylenes
 - Chemical gases such as vinyl chloride, ammonia, butadiene
- Demonstrates some water tolerance, tolerating up to 4% water before hazing at 80°C
- Acceptable corrosion resistance with 2.5% water in standard industry tests
- Compatible with common seal and gasket materials such as Nitrile Rubber (NBR) and fluorosilicones
- This product softens ordinary industrial paints. Two pack epoxy formulations are normally resistant to this product
- Should not be mixed with mineral oils
- Not recommended for use in breathing air compressor

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Product approvals, performance, and recommendations

Performance standards

Cetus[®] PAG Approvals:

- VGP compliant and listed by the US Environmental Protection Agency as approved Environmentally Acceptable Lubricants

Cetus[®] PAG meets the requirements of:

- Linde, for general service gas compression including ammonia, vinyl chloride and butadiene,
- Sulzer Burckhardt AG and Winterthur, for use in their K-type gas cargo compressors for general LPG/LNG service and for ammonia, vinyl chloride, butadiene, and
- Howden Compressors Ltd, for use in refrigeration compressors operating with propane and propylene at discharge pressures exceeding 7 kg/cm².

Consult OEM representatives for independent verification, updates and recommendations.

Service Considerations

Typically, base oils used in compressor lubricants are either mineral (naphthenic/paraffinic), PAO, ester (diester and polyolester), silicone, or PAG. PAGs are not usually compatible with other base fluids besides themselves. It is imperative to be cautious even when changing from one base oil type compressor fluid to a Chevron compressor fluid of the same base oil, because variations of incompatibility could come into play. Never assume a PAG compressor oil can be displaced with anything other than a PAG compressor oil, without taking extra steps of caution.

To achieve the best performance results from PAG fluids, previously used lubricants should be thoroughly removed from the compressor. Care should be taken when changing to PAG fluids. A complete drain and flush will provide the full performance benefits. The unit should be as clean as possible (inclusive of all components). This includes draining and flushing all previously used lubricants. All seals in the compressor need to be replaced to prevent oil leakage from seal shrinkage of swollen seals. Follow the compressor manufacturer's recommendations on seal replacement and the ISO grade recommendations for the compressor used.

Cetus[®] PAG

Premium performance PAG based synthetic compressor oil



Typical Test Data

CETUS [®] PAG	TEST METHOD	RESULTS
Kinematic Viscosity, mm ² /s @ 40°C	ASTM D445	185
mm ² /s @ 100°C	ASTM D445	35
Viscosity Index	ISO 2909	238
Flash Point, °C	ASTM D92	260
Pour Point, °C	ASTM D97	-30
Density at 15°C, kg/l	ASTM D1298	1.057

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 Chevron Global Lubricants: Asia Pacific.

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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