



Cetus[®] HiPerSYN Oil 46

High performance synthetic compressor, bearing, and gear lubricant

Product description

Cetus HiPerSYN Oil 46 is a high performance synthetic compressor, bearing, and gear lubricant especially recommended for portable and stationary rotary, vane, and screw air compressors.

Cetus HiPerSYN Oil 46 is also suitable for use in industrial bearing and gear systems where an R&O type synthetic gear lubricant is required.

Customer benefits

- Offers high performance thermal and oxidation stability, helping to optimise system uptime
- Advanced keep clean performance helps reduce harmful sludge and deposit formation
- Robust synthetic lubricant formulation offers extended service intervals
- Low volatility promotes stable, stay-in-grade performance
- Reliable long service life and performance in rotary screw compressors

Applications

- Cetus HiPerSYN Oil 46 is formulated to help provide dependable lubricating qualities for air compressors, especially portable and stationary rotary, vane, and screw units
- Cetus HiPerSYN Oil 46 is designed for applications with wider operating temperature ranges when compared to non-synthetic oils. The higher viscosity grade products promote effective performance in high temperature applications, such as soot blowers, where outstanding thermal and oxidative stability is required

Product highlights

- **Offers thermal and oxidation stability**
- **Helps reduce sludge and deposits**
- **Promotes extended service intervals**
- **Offers low volatility performance**
- **Designed for reliable long service life**

Selected specification standards include:

NSF, H2 (130527)

DIN 51506, class VDL 46

U.S. Fish and Wildlife Service and U.S. Environmental Protection Agency (EPA) acute aquatic toxicity (LC-50) criteria

- Cetus HiPerSYN Oil 46 also offers protection against the formation of oxidation by-products and acidic materials which will eventually cause deposits and varnish, rust, oxidation, and foaming
- Cetus HiPerSYN Oil 46 offers good demulsibility characteristics promoting quick release of moisture and helping minimise entrained air, which could otherwise result in reduced lubricant film thickness and potentially lead to pump cavitation

Approvals, performance and recommendations

Performance

- Registration NSF, H2 (130527)
- DIN 51506, class VDL 46

Recommendations

- Cetus HiPerSYN Oil 46 passes the acute aquatic toxicity (LC-50) criteria adopted by the U.S. Fish and Wildlife Service and the U.S. Environmental Protection Agency (EPA)

| Typical test data | | |
|---|-----------------------|---------|
| Test | Test Methods | Results |
| Viscosity Grade | | 46 |
| Shelf Life: 60 months from date of filling indicated on the product label | | |
| Kinematic viscosity at 40°C, mm ² /s | ASTM D445 | 43.7 |
| Kinematic viscosity at 100°C, mm ² /s | ASTM D445 | 7.3 |
| Viscosity Index | ASTM D2270 | 130 |
| Density at 15°C, kg/l | ASTM D1298 | 0.8469 |
| Flash Point, °C | ASTM D92 | 244 |
| Pour Point, °C | ASTM D5950 | -36 |
| Colour | ASTM D1500 | L0.5 |
| Copper corrosion, 3h/121°C | ASTM D130 | 1B |
| Water separability, minutes to 0 ml emulsion | ASTM D1401 | 15 |
| Foam Seq. I | ASTM D892 | 10/0 |
| Oxidation stability Hours to 2.0 mg KOH/g acid number | Modified ASTM D943 | 18.000+ |
| RPVOT | ASTM D2272 | 1800 |

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.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

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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