



Hydra[®]

Ultra high performance biodegradable synthetic hydraulic fluid

Product description

Hydra is an ultra high performance biodegradable zinc-free hydraulic fluid, based on a synthetic ester formulation (HEES).

Hydra is specifically designed for use in applications where accidental fluid release or leakage may result in environmental contamination.

Customer benefits

- OECD 301B and Water Hazard Class 1 classification helps protect the environment in the event of accidental leakage
- Wide viscosity temperature characteristics offer consistent system performance under a wide range of temperatures
- Resistance to system rust helps reduce unplanned equipment maintenance and downtime
- Oxidation stability contributes to smooth operating performance and increased system uptime
- Advanced wear protection promotes increased component life and system reliability
- Compatible with many seals used in hydraulic systems and miscible with conventional mineral oil based fluids

Product highlights

- **Synthetic technology**
- **OECD 301B and Water Hazard Class 1 classification**
- **Wide temperature performance**
- **System rust protection**
- **Oxidation resistance**
- **Wear protection**

Selected specification standards include:

ISO 15380 HEES

Applications

- Recommended for applications where the possibility of environmental contamination could occur, and when lubricating unattended machinery

Approvals, performance and recommendations

Performance

- ISO 15380 HEES

Typical test data

Test	Test methods	Results	
Viscosity Grade		32080	32082
Product Code		32	46
Kinematic viscosity, 40 °C, mm ² /s	ASTM D445	32	46
Kinematic viscosity, 100 °C, mm ² /s	ASTM D445	7.4	9.3
Viscosity Index	ASTM D2270	194	194
Flash Point COC, °C	ASTM D92	215	252
Pour Point, °C	ASTM D97	-50	-45
Density, 15 °C, kg/l	ASTM D4052	0.915	0.922
Copper Corrosion (3h, 100 °C)	ASTM D130	1A	1A
Foam Seq. I (after blowing), ml	ASTM D892	0	0
Foam Seq. I (after 10' standing), ml	ASTM D892	0	0
Biodegradability, %	OECD 301B	-	78.3

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 Sheets.

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). MSDSs 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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