



## Premium Performance Biodegradable Hydraulic Fluid

### Product description

**Hydra®** is a premium performance biodegradable hydraulic fluid specifically designed for use in applications where environmental contamination may occur. Hydra is a zinc-free hydraulic fluid formulation, containing a mixture of unsaturated synthetic esters.

### Customer benefits and product features

#### Customer benefits

- Biodegradable formulation helps reduce environmental contamination
- Suited for a wide range of stationary and mobile hydraulic systems
- Wide service temperature window from -30°C up to +95°C
- Environmentally compatible with biodegradability at OECD 301F: >70%
- Meets the requirements of Swedish Standard SS 15 54 34
- WGK 1 rating according to German WGK Classification

#### Product features

- Helps reduce environmental contamination
- Offers flexibility in both stationary and mobile systems
- Wide temperature range -30°C up to +95°C
- Biodegradability at OECD 301F: >70%
- Meets Swedish Standard SS 15 54 34
- WGK 1 rating
- Selected specification standards include:
- DIN ISO 15 380 HEES
- Swedish-Standard
- VDMA 24568, HEES



## Premium Performance Biodegradable Hydraulic Fluid



### Applications

Hydra 32 and 46 are suitable for a wide range of stationary and mobile hydraulic systems as recommended by ISO 15380, HEES.

Hydra 32 and 46 should be used where there is a danger of soil or water pollution.

Typical applications are: mobile hydraulics in drainage areas and road construction, forestry and timber industries, ski racing vehicles, track maintenance, municipal vehicles and facilities, auto hoists, hydraulic engineering, forklifts, horticulture and landscaping, sewage plants, fresh water recovery, floating dredgers, sluices, water maintenance boats, tunnelling machines, off-shore equipment, concrete pumps and track laying machines.

### Product approvals, performance and recommendations

#### Approvals

- Swedish-Standard-15 54 34 ([www.sp.se/km/hydraul](http://www.sp.se/km/hydraul))

#### Performance

- DIN ISO 15 380 HEES
- VDMA 24568, HEES
- SS 15 54 34

### Typical test data

HYDRA®	TEST METHOD	RESULTS	
<b>Viscosity Grade</b>		<b>32</b>	<b>46</b>

### Typical Shelf Life: 48 months from date of filling indicated on the product label

Appearance	Visual	Clear liquid	Clear liquid
Viscosity, Kinematic mm²/s @ 40°C	ISO 3104	32.5	45.2
mm²/s @ 100°C	ISO 3104	7.4	9.29
Visc. Index	ISO 2909	194	194
Colour	ISO 2049	1	1.5
Flash Point, °C	ISO 2592	215	252
Pour Point, °C	ISO 3016	-50	-45
Fire Point COC ,°C	ISO 2592	265	284
TAN, mg KOH/g	ASTM D0664	1.0	1.0
Density, 15 °C, Kg/l	ASTM D1298	0.915	0.922
Air Release at 50°C, min	ISO DIS 9120	4	5
Foam Seq. ml	ISO 6247	0/0	0/0
Foam Seq. II, ml	ISO 6247	0/0	0/0
Foam Seq. III, ml	ISO 6247	0/0	0/0
Cu Corrosion, 3h, 100 °C	ASTM D0130	1A	1A

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 Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

This document includes registered and unregistered trademarks, service marks, logos and trade names owned by Chevron Intellectual Property LLC and/or its affiliates, or owned by third parties whose products, services or standards are referred to. You must not use any trademark that appears in this document without permission from the relevant owner.