

Description

Fire-resistant, high-performance hydraulic fluid, designed for use in electric-hydraulic control systems in steam turbines, including systems that use fine-tolerance servo valves. As it is synthetic, any change from a universal fluid to a product of this nature must be subject to consultation as its compatibility with joints is notably different.

Used in steam turbine control systems in conventional or nuclear thermal power station as a lubricant in gas turbines

Properties

Fire resistance (Mutual-Standard-6930)

- Heated circuit test – without ignition.
- Spray ignition (maximum burning persistence) 3 seconds.

Anti-wear

- Testing in Vickers pump 250 hours:
 - . Hoop weight loss: 5.9 mg.
 - . Pallet weight loss: 3.3 mg.
 - . Total loss: 9.2 mg.
- Four-ball test (40 kg 1 hour)
 - . Average scar diameter: 0,6 mm
- FZG test – Damage step: 8.

Quality levels

- EHC fluid. Approved by the leading turbine manufacturers such as Siemens-KWU, BBC, AEG, PARSON, etc.
- Complies with ASTM-D-4293, ISO-LTCD, GEK 46357F (General Electric)

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 5. September 2013.

Technical specifications

	UNIT	METHOD	VALUE
ISO Viscosity Grade			46
Density at 20 °C	g/mL	ASTM D 4052	1.13
Viscosity at 100 °C	cSt	ASTM D 445	5
Viscosity at 40 °C	cSt	ASTM D 445	43.4
Viscosity at 20 °C	cSt	ASTM D 445	175
Viscosity at 0 °C	cSt	ASTM D 445	1700
Pour point	°C	ASTM D 97	-20
Flash point V/A	°C	ASTM D 92	246
Auto-ignition temperature	°C	ASTM D 2155	575
Aeroemulsion at 50 °C	min	IP -313	1
Foam at 24 °C Formation	mL	ASTM D 892	25
Foam at 24 °C Stability	mL	ASTM D 892	0

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