

COMANDER BLUE EHC



Lubricants

Description

Fire-resistant, high-performance hydraulic fluid, designed for use in electric-hydraulic control (EHC) 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 plants as a lubricant in gas turbines, and in combined-cycle plants meeting the high safety levels required for these uses.

This lubricant is classified as easily biodegradable, meaning it is much more environmentally friendly than mineral-based fluids. Additional benefits include: Self-extinguishing properties; high thermal, oxidation, and hydrolytic stability; and excellent lubrication properties.

Properties

Fire resistance (Mutual-Standard-6930)

- Heated circuit test – without ignition.
- Spray ignition (maximum burning persistence) 8 seconds.

Hazardous substances classification:

- WHMIS Classification: not classified.
- Carcinogenic, mutagenic, and neurotoxic classification: not classified.
- Mutation testing: Negative for cells L5178 and BALB/c3T3.

Quality levels

- EHC fluid. Approved by the leading turbine manufacturers such as Alstom HTGD690149, General Electric GEK 46357, and Siemens Turbine Hydraulic Fluid.
- Approved by FM Global Insurance.

A product safety sheet is available upon request.

repsol.com
+34 901 111 999

Lubricants technical data sheet. Revision 1. March 2019

COMANDER BLUE EHC



Lubricants

Technical specifications

	UNIT	METHOD	VALUE
ISO Viscosity Grade			46
Density at 20 C	g/mL	ASTM D 4052	1.17
Viscosity at 100°C	cSt	ASTM D 445	5.5
Viscosity at 40°C	cSt	ASTM D 445	44.5
Freezing point	°C	ASTM D 97	-24
Flash point V/A	°C	ASTM D 92	262
Auto-ignition temperature	°C	ASTM D 2155	565
Aeroemulsion at 50 C	min	IP-313	5
Foam at 24°C Formation	mL	ASTM D 892	10
Foam at 24°C Stability	mL	ASTM D 892	0
Biodegradable (closed container) Consumption of O ₂	%		61%

The aforementioned characteristics are standard values and should not be considered product specifications.

A product safety sheet is available upon request.

repsol.com
+34 901 111 999

Lubricants technical data sheet. Revision 1. March 2019