

LUBRICANTS FOR INDUSTRIAL USE

CEPSA FUNDICOL SYNT EHC

DESCRIPTION

Biodegradable fire-resistant hydraulic fluid, especially recommended for use in electric-hydraulic control systems of steam turbines. It is a product formulated with phosphate ester.

PRODUCT APPLICATIONS

- Electric-hydraulic control systems of steam turbines, including the systems that use servo valves.
- As fire-resistant fluid in steam and gas turbines.

PRODUCT PERFORMANCE

- Fire-resistant fluid.
- Superb rust and corrosion resistance.
- Good defoamer and air release properties.
- Recommended by most manufacturers of turbines: Alstom, General Electric, Siemens.

SPECIFICATIONS

- ISO Standard 12922
- ASTM 4293 'Less flammable hydraulic fluids'
- Alstom HTGD 690149 P
- FM Global Group – Standard 6930
- SIEMENS TLV 9012 02 and TLV 9012 03ES
- GEK 46357ES

TYPICAL CHARACTERISTICS

| CHARACTERISTIC | UNITS | METHOD | CEPSA FUNDICOL SYNT EHC |
|---------------------|-------|-------------|-------------------------|
| Density at 20°C | Kg/l | ASTM D-4052 | 1,150 |
| O/C flash point | °C | ASTM D-92 | 262 |
| O/C fire point | °C | ASTM D-92 | 354 |
| Freezing point | °C | ASTM D-5950 | -24 |
| Viscosity at 40°C | cSt | ASTM D-445 | 44,5 |
| Viscosity at 100°C | cSt | ASTM D-445 | 5,4 |
| Autoignition point | °C | DIN 51794 | 540 |
| Air release at 50°C | min | ASTM D-3427 | 5,5 |
| Biodegradability | % | OECD 301 B | >60 |

TABLE OF COMPATIBILITIES

| MATERIAL | SEALS, HOSES, ACCUMULATORS | INSULATED CABLES AND WIRES | PAINTS | FILTERS |
|--------------------------------|-------------------------------|-------------------------------|--------|---------|
| Acrylic | | | NR | |
| Activated Alumina | | | | A |
| Alkyd Paint | | | A | |
| Butyl Rubber | R | | | |
| Cellulose | | | | A |
| Ethylene-Propylene Rubber | A | | | |
| Epoxy Paint (Cured) | | | R | |
| Fullers Earth | | | | A |
| Ion Exchange Resins | | | | R |
| Natural Rubber | NR | | | |
| Chloroprene Rubber (CR) | NR | | | |
| Neoprene | NR | | | |
| Nitrocellulose | | | NR | |
| Nitrile Butadiene Rubber (NBR) | NR | | | |
| Nylon | R | R | | |
| Paper | | | | A |
| Phenolic Resins | | | NR | |
| Polyethylene (PE) | | A | | |
| Polypropylene (PP) | | A | | |
| Polyurethane Paint | | | A | |
| Polyvinyl Chloride (PVC) | | NR | | |
| Silicone Rubber | NR | A | | |
| Polytetrafluorethylene (PTFE) | R | R | | |
| Teflon | R | R | | |
| Vinyl Ester Paint | | | A | |
| Fluorocarbon Rubber (FPM) | | | | |
| Viton | R | | | |

Legend:

R - Recommended

NR- Not Recommended

A - Acceptable

HEALTH & SAFETY AND ENVIRONMENT

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures together with environmental effects and disposal of used products.