

# COSMOLUBRIC HF 122 E

Synthetic Hydraulic Fluid (Type HEES and HFDU – synthetic ester)

## DESCRIPTION

COSMOLUBRIC HF 122 E is a synthetic, biodegradable hydraulic fluid based on organic esters and having a viscosity grade of ISO VG46.

Its high lubricity and anti-wear characteristics ensure reliable protection of hydraulic systems and components.

## APPLICATIONS

An environmentally friendly alternative to mineral-based hydraulic oils, COSMOLUBRIC HF 122 E reduces fire risks where hydraulic equipment operates near flames, hot surfaces or molten metals.

It is particularly suited to systems that require high lubrication, or which are prone to leakage into water courses.

COSMOLUBRIC HF 122 E is respected worldwide in steel and aluminium production, pressure die-casting, glassmaking, polymer forming and many other high fire risk industries.

## RECOMMENDATION FOR USE

Use as supplied, without dilution.

## TYPICAL PHYSICAL PROPERTIES

Appearance	Clear, amber liquid
Specific Gravity @ 15.5°C	0.91
Kinematic Viscosity @ 40°C cSt	46
Kinematic Viscosity @ 100°C cSt	9.6
Pour Point °C	-32
Flash Point °C (ASTMD92)	295
Fire Point °C (ASTMD92)	315
Autoignition Temperature °C (ASTMD92)	395
Biodegradability	Over 80%

## BENEFITS

- Improved security against fire
- Longer plant / equipment life, with fewer failures
- Lower spend on maintenance and repairs
- Increased plant availability
- Reduced energy consumption
- Increased productivity
- Biodegradable

## ADDITIONAL PRODUCT DATA

COSMOLUBRIC HF 122 E meets or exceeds the requirements of the C.E.C. (Luxembourg 7th Report).

COSMOLUBRIC HF 122 E passes ASTM D2882 pump tests, with under 5mg weight loss at 140bar.

COSMOLUBRIC HF 122 E passes IP135 / ASTM D665A corrosion tests and satisfies the requirements of CETOP R48H on steel, copper, brass and anodised aluminium.

COSMOLUBRIC HF 122 E is very low foaming, to minimise the risk of cavitation and air entrainment. In tests to IP146 it gives a result of 10/0 seq. 1 at 24°C.

COSMOLUBRIC HF 122 E is suitable for standard seals used in hydraulic systems, e.g. NBR, Viton, Teflon.

## RELATED PRODUCTS

Houghton specialises in fire resistant fluids of all categories, under the brands HYDROLUBRIC, HOUGHTO-SAFE, ISOCOR and COSMOLUBRIC. We complement these with a wide range of oil based hydraulic and lubricating fluids, under HOUGHTO-DRIVE and Sta-Put brands.

For more information, please contact your local Houghton representative.

## STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

## HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulations (EC) No 1907/2006 Annex II and (EC) No 1272/2008.

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