PRODUCT DATA SHEET

Q8 Estin 46 S

Fire resistant HFDU hydraulic fluid

Description

Q8 Estin 46 S is fully synthetic fluid formulated with organic esters and specifically selected additives. This fluid is characterized by high flash and combustion points and has specific properties to avoid a violent and explosive ignition when they come into contact with flames or hot metal surfaces. Q8 Estin 46 S is FM (Factory Mutual) class 6930 approved.

Applications

Q8 Estin 46 S is suitable for hydraulic systems specifically used in steel industry, continuous casting machines, finishing rolling mills, paper industry, etc. and everywhere in presence of flames or fire risk.

Benefits

- *Effortless and safe application for operators*
- *Extremely high flash point*
- *High viscosity index*
- *Excellent oxidation and thermal stability*
- *Readily biodegradable*

Specifications & Approvals

Danieli	Standard 0.000.001-R15 (2020)	**ISO**	6743-4 HFDU
FM	Approval Standard 6930		

Properties

	Method	Unit	Typical
Appearance	*Visual*	*-*	*Bright & Clear*
Colour	*D 1500*	*-*	*3.0*
Density, 20 °C	*D 4052*	*g/ml*	*0.920*
Kin. Viscosity Base Oil at 40 °C	*D 445*	*mm²/s*	*46*
Kin. Viscosity Base Oil at 100 °C	*D 445*	*mm²/s*	*9.7*
Viscosity Index	*D 2270*	*-*	*185*
Flash Point, COC	*D 92*	*°C*	*>310*
Fire Point, COC	*D 92*	*°C*	*360*
Foam, 5 min blowing, seq. 1-2-3	*D 892*	*ml*	*30/50/30*
Foam, 10 min settling, seq. 1-2-3	*D 892*	*ml*	*0/0/0*
Pour Point	*D 97*	*°C*	*-36*
Rust Test, Proc. A and B, 24 h	*D 665*	*-*	*pass / pass*
Copper Strip, 3 h, 100 °C	*D 130*	*-*	*1a*
Total Acid Number	*D 974*	*mg KOH/g*	*0.5*
Carbon Residue	*D 524*	*% mass*	*0.3*
Saponification number	*D 94*	*mg KOH/g*	*190*
FZG Test, A/8.3/90	*DIN 51354*	*load stage*	*>11*
Biodegradability, 28 days	*OECD 301 B*	*%*	*>85*

The figures above are not a specification. They are typical figures obtained within production tolerances.

Remarks

Metals and elastomers compatibility: in particular these fluids are compatible with Viton, Teflon, Buna N, Neoprene, Polyurethane. Complete mixability and compatibility between Q8 Estin 46 S and mineral oils, natural and synthetic esters.