

## 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. This lubricant is readily biodegradable >85% in 28 days.

### 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	0.597669.N _ HFDU-U-46 (Rebrand of approved brand Roloil Estin 46 S)	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	mm <sup>2</sup> /s	46
Kin. Viscosity Base Oil at 100 °C	D 445	mm <sup>2</sup> /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	1.5
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
Air Release, 50 °C	DIN 51381	min	7
Hot surface ignition test	Factory Mutual	-	pass

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.*