

PRESOL HE FR (RANGE)

BIODEGRADABLE FIRE RESISTANT HYDRAULIC FLUID

DESCRIPTION

PRESOL HE FR range is based on a high flash point biodegradable ester and additives.

PRESOL HE FR oils are microfiltered at 5 microns during discharge.

APPLICATIONS

PRESOL HE FR range is recommended for hydraulic equipment operating in locations comprising a fire risk as iron, steel work (cooking plants, blast furnaces, continuous casting), mines, aluminium die casting,...etc

SPECIFICATIONS

ISO 6743/4 HFDU

ISO 12922

TECHNICAL CHARACTERISTICS

	Units	Typical values			Method
	PRESOL HE FR	46	68	100	-
Appearance	-	Amber fluid			-
Density at 15 °C	Kg/L	0,92	0,93	0,94	ASTM D 1298
Viscosity at 0 °C	cSt	325	450	750	ASTM D 445
Viscosity at 20 °C	cSt	110	158	243	ASTM D 445
Viscosity at 40 °C	cSt	38 – 52	62 – 74	100	ASTM D 445
Viscosity at 100 °C	cSt	9,4	12,9	17,3	ASTM D 445
Viscosity Index	-	194	194	190	ASTM D 2270
Flash point	°C	> 300	> 300	> 300	ASTM D 92
Pour point	°C	< -25	- 20	- 18	ASTM D 97
Demulsibility	ml/ml/ml(min)	40/37/3 in 20'	40/37/3 in 30'	40/37/3 in 20'	ASTM D 1401
Foamig test 25°C	min.	30/0 en 10'			ASTM D 892
Biodegradability	%	> 60 (easy biodegradable)			OECD 301 B
Water content	%	< 0,05			KF
Corrosion test	-	pass			ASTM D 665
Tost test	hours	200			ASTM D 943

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COGELSA is not liable for damages caused by improper use of the product.

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HEAT TRANSFER VALUES AND COMPRESSIBILITY

Parameter	Values	Method
Specific heat (20°C)	2,06 KJ/ Kg °C	ASTM D -2766
Thermal expansion coefficient (20°)	6x 10 ⁻⁴	ASTM D-1903
Thermal Conductivity (20°C)	0,17	ASTM D-2717
Dielectric strength	30 kV	ASTM D-877
Compressibility (20°C/ 210 Kg/cm2)	5,3 x 10 ⁶ cm ² /N	ASTM D-6793

ELASTOMERS COMPATIBILITY

Compatible with NBR, PTFE, FPM, PU, Neoprene. Not compatible with EPDM, butyl.

CAUTIONS

Storage: it is recommended to store under cover, in well closed containers and at temperatures from 0° C up to 40°C.

Mixes with other products: It can be mixed with mineral oil base products and similar to this, but not mixed with water or water base products (water / glycol type HFC). In the case of oils in use, their state must be analysed in advance to assess whether or not mixing is recommended.

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