Alusynt® FGD

NON-TOXIC SYNTHETIC OIL FOR DIATHERMIC PLANTS

PRODUCT

Alusynt® FGD is a non toxic synthetic lubricant registered in the **HT-1** category lists of the American institution NSF INTERNATIONAL (see website http://www.nsf.org/USDA/Listings.asp?Company=N10201 - Registration Nr. 147195) for use as a heat transfer fluid in food and related industries where possible the accidental contact with food.

Aluchem products and plants have been also **Kosher** certified.

CHARACTERISTICS AND PERFORMANCE

Alusynt® FGD Thanks to its particular synthetic nature, stands out for its high stability in service. The chemical composition of **Alusynt® FGD** was designed to thwart the formation of low-boiling fractions and of insoluble decomposition products, with its consequent deposits.

The high viscosity index provides greater fluidity in cold starts, compared to traditional mineral diathermic oils; This reduces thermal stress of the fluid during these transient.

USES

Alusynt® FGD is recommended for diathermic plants with single or multiple tubes, with exit temperatures up to 320°C approximately.

Higher temperatures require it, as with any other heat transfer fluid, constant monitoring of the condition of the lubricant.

It is recommended not to exceed 40°C in the expansion vessel.

Technical Data	Method	Units	Mean Values	
Grade of viscosity ISO	ASTM D 2422	-	**32**	**46**
Thermal rating	-	°C	- 60 ÷ 320	- 54 ÷ 320
Viscosity at 40°C	ASTM D 445	mm^2/s	30,20	46,10
Viscosity at 100°C	ASTM D 445	mm^2/s	5,66	8,00
Viscosity index	ASTM D 2270	-	128	135
Density at 20°C	ASTM D 1298	g/cm^3	0.830	0.830
Pour point	ASTM D 97	°C	<- 60	<- 57
Water or Moisture	ASTM D 6304/04a	% wt	< 0,02	< 0,02
Flash point (COC)	ASTM D 92	°C	230	240
TAN (Total Acid Number)	ASTM D 664	mgKOH/g	0,01	0,01
Foaming, Sequences I,II,III	ASTM 892	ml/ml	0/0	0/0
Noack volatility (1 h. at 250°C)	DIN 51581	% wt	7,75	3,50

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