



Grease Fluor HT

Extremely high temperature grease

Description

Grease Fluor HT is a white, homogeneous, butter-like perfluorinated polyether grease. Particularly resistant to oxygen, chemical agents and high temperatures. Grease Fluor HT can be used in contact with hot and cold water, vapour, fuel, acids, alkaline products, non-fluorinated solvents and chlorinated solvents. Continuous operating temperature of 250 °C. Can reach 300 °C peak temperature in short period.

Applications

Grease Fluor HT provides exceptional stability to heat and chemical agents and shows high efficiency in:

- Electric motors bearings
- Roller bearings in furnace wagon wheels
- Thermal stabilized ball bearings in clip chains
- Chain bearings in drying plants
- Stenter chains bearings
- Vacuum pump units
- Handling and pumping of alkaline products and acids

- Handling and pumping of petroleum, fuel oils and oils
- Handling and pumping of solvents
- Oven lubrication
- Stabilisation or polymerisation in glass production
- Textile & plastic film production
- Nuclear sites
- Production of corrugated
- Glass house construction

As stated herein Grease Fluor HT is insoluble in most of the solvents, this is why such solvents are not suitable for the cleaning of mechanisms and tools used in contact with the product. To remove or dissolve only fluorinated cleaners will be effective. Fluorsol X or Fluorsol XL can be used.

Cautions

In tests Grease Fluor HT shows very low ingestion and skin toxicity, therefore it is not dangerous for operators. Should only be applied onto perfectly clean parts, free of any type of contamination or protection such as oil, grease, anti-rust protectors and dust.

Compatibility

Synthetic materials and elastomers compatibility:

Material	Compatible yes/no
Cellulose acetate	Yes
Polyacetal resin	Yes
Polyamides	Yes
Polyethylene	Yes
Polycarbonates	Yes
Polyurethanes	Yes
Polytetrafluorethylene	Yes
Ethyl-propyl-terpolimer rubber	Yes
Butadiene-acrylonitrile rubber	Yes

All performance data on this Technical Data Sheet are indicative only and can vary during production

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Typical performance data

	Test method	HT 0	HT 1	HT 2
Colour		White		
Thickener, soap type		PTFE		
Base oil nature		Fluorinated polyether		
Base oil viscosity @ 40 °C, cSt	ASTM D445	500	500	500
NLGI consistency		0	1	2
Penetration @ 25 °C, x 0,1 mm	ASTM D217	355-385	310-340	265-295
Dropping point °C	DIN 51801	None	None	None
Specific gravity @ 25 °C		1,93	1,93	1,88
Evaporation, %	ASTM D972			
<ul style="list-style-type: none"> • Weight loss 22 hrs @ 65 °C • Weight loss 22 hrs @ 150 °C • Weight loss 22 hrs. @ 200 °C • Weight loss 22 hrs @ 250 °C 		0	0	0
		0	0	0
		1	1	1
		4	4	4
Oil separation, %	FTMS 791.321			
<ul style="list-style-type: none"> • Oil separation 30hr. @ 66 °C • Oil separation 30hr. @ 150 °C 		0	0	0
		4	4	4
Oxidation stability @ 100 °C, bar	ASTM D942	0	0	0
Water resistance @ 90 °C	DIN 518079	0	0	0
4-balls wear test, weld load, kg	IP 239	>700	>700	>700
Ionizing radiations, rads		5 x 10 ⁸	5 x 10 ⁸	5 x 10 ⁸
Max speed factor (n x mm)		300000	300000	300000
Service temperatures, °C		-30 – 250	-30 – 250	-25 – 250
Peak temperatures, °C		300	300	300

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