

GREASE FLUOR HT 1

Product code: 264902501

Extremely high temperature grease

This product is a white, homogeneous, butter-like perfluorinated polyether grease. Particularly resistant to oxygen, chemical agents and high temperatures. It 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

It 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
- Glasshouse construction
- Paint lines in car manufacturing

As stated herein this product 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 this product 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

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Typical Performance Data

Typical	Test Method	Value
Colour	-	White
Thickener, soap type	-	PTFE
Base oil nature	-	Fluorinated polyether
Base oil viscosity @ 40 °C, cSt	ASTM D445	500
NLGI consistency	-	1
Penetration @ 25 °C, x 0,1 mm	ASTM D217	310-340
Dropping point °C	DIN 51801	None
Specific gravity @ 20 °C	-	1.90
Evaporation, % <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 	ASTM D972	0 0 1 4
Oil separation, % <ul style="list-style-type: none"> • Oil separation 30hr. @ 66 °C • Oil separation 30hr. @ 150 °C 	FTMS 791.321	0 4
Oxidation stability @ 100 °C, bar	ASTM D942	0
Water resistance @ 90 °C	DIN 518079	0
4-balls wear test, weld load, kg	IP 239	>700
Ionizing radiations, rads	-	5 x 10 ⁸
Max speed factor (n x mm)	-	300000
Service temperatures, °C	-	-30 – 250
Peak temperatures, °C	-	300
Emcor corrosion test Distilled water, 164 h	DIN 51802	0

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