



Grease Fluor H

Extremely high temperature grease

Description

Grease Fluor H is a white, homogeneous, butter-like perfluorinated polyether grease. Particularly resistant to oxygen, chemical agents and high temperatures. Grease Fluor H 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 280 °C peak temperature in short period.

Applications

Grease Fluor H 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 H 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 H 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 | H 000 | H 0 | H 1 | H 2 |
|-----------------------------------|--------------|-----------------------|----------------------|----------------------|----------------------|
| Colour | | White | | | |
| Thickener, soap type | | PTFE | | | |
| Base oil nature | | Fluorinated polyether | | | |
| Base oil viscosity @ 40 °C, cSt | ASTM D445 | 500 | 500 | 500 | 500 |
| NLGI consistency | | 000 | 0 | 1 | 2 |
| Penetration @ 25 °C, x 0,1 mm | ASTM D217 | 445-475 | 355-385 | 310-340 | 265-295 |
| Drop point °C | DIN 51801 | None | None | None | None |
| Specific gravity @ 25 °C | | 1,93 | 1,93 | 1,93 | 1,92 |
| Evaporation loss, % | ASTM D972 | | | | |
| • Weight loss 22 hr/65 °C | | 0 | 0 | 0 | 0 |
| • Weight loss 22 hr/150 °C | | 0 | 0 | 0 | 0 |
| • Weight loss 22 hr/200 °C | | 1 | 1 | 1 | 1 |
| • Weight loss 22 hr/250 °C | | 4 | 4 | 4 | 4 |
| Oil separation, % | FTMS 791.321 | | | | |
| • After 30 hr/65 °C | | 0 | 0 | 0 | 0 |
| • After 30 hr/100 °C | | 3,5 | 3,5 | 3,5 | 3,5 |
| • After 30 hr/200 °C | | 12 | 12 | 12 | 12 |
| Oxidation stability @ 100 °C, bar | ASTM D942 | 0 | 0 | 0 | 0 |
| Water resistance @ 90 °C | DIN 518079 | 0 | 0 | 0 | 0 |
| 4-balls wear test, weld load, kg | IP 239 | >700 | >700 | >700 | >700 |
| Specific resistance (ohm x cm) | | 4 x 10 ¹⁴ | 4 x 10 ¹⁴ | 4 x 10 ¹⁴ | 4 x 10 ¹⁴ |
| Max speed factor (n x mm) | | 300.000 | 300.000 | 300.000 | 300.000 |
| Service temperatures, °C | | -30 – 260 | -30 – 250 | -30 – 250 | -25 – 250 |
| Peak temperatures, °C | | 280 | 280 | 280 | 280 |

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