

Balmerol[®] Grease PFE 227

PTFE Grease for High Temperature Application

Technical Data Sheet

Product Description: Balmerol Grease PFE 227 is a superior quality fully synthetic grease formulated to operate in severe applications in industries like chemical, electrical, aluminium, steel, nuclear, liquid gas etc Balmerol Grease PFE 227 is formulated with fully Fluorinated Poly Ether, PTFE powder and a suitable antioxidant. Balmerol Grease PFE 227 is stable against concentrated acids, halides, high- pressure oxygen medium, nitrogen oxides and other oxidising agents. It is electrically non-conducting and can be used for circuit breaker application.

Features & Benefits:

Balmerol Grease PFE 227 provides the following benefits:

- Excellent chemical and solvent resistance
- Provides more reliable lubrication and outlasts petroleum based greases and oils
- Outstanding high temperature stability
- Remains free flowing in freezing temperatures
- Excellent oxidation stability
- Non-flammable
- Wide operating temperature range , -80 °C to 300 °C

Applications / Recommendations:

- Balmerol Grease PFE 227 has good oxidation resistance properties and is used for long life applications in static operating conditions, such as valve, valve system and seals operating at high pressure, in contact with liquid or gaseous oxygen over a wide range of temperatures. It can be used in presence of UF6 and SF6. Balmerol Grease PFE 227 exhibits high thermal stability and superior oxidation stability. It has a very low volatility and is radiation resistant. Because of its good cryogenic property Balmerol Grease PFE 227 is recommended for use in liquid oxygen, nitrogen and helium plants.

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Typical Properties:

Balmerol Grease PFE 227	
Properties	Grease PFE 227
Appearance	Vaseline like colourless smooth, buttery
NLGI Grade	2
Thickener type	Polytetrafluoroethylene Powder
Base Oil Type	Fully Fluorinated Poly Ether
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	265 - 295
Dropping Point °C, min, ASTM D 566	None
Oxidation stability, 100h, psi drop, max., ASTM D 942	0.30
Content of mechanical impurities, ASTM D 1404	Absent
Oil volatility in 22 hr, %, min, ASTM D 972	0.30
Corrosion test on steel plates, In house test method	Pass
Low Temperature Torque @ -40° C, IP 186	Pass

Health and Safety:

Balmerol PFE 227 is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

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