

PFPE HTX-2 (PFPE High Temperature Grease)

DESCRIPTION:

PTFE HTX-2 is high performance & long-lasting grease formulated in perfluoropolyether (PFPE) fluorinated synthetic oil and polytetrafluoroethylene (PTFE) is white buttery grease which are nonreactive, non-flammable & safe in chemical and oxygen service. It only contains carbon, oxygen and fluorine, it does not contain any hydrogen or silicone and is basically chemically inert. It will not burn or support combustion. It is ideal grease for vacuum parts which are exposed to air such as rods in vacuum loading locks, vacuum door seals, moving aperture holders and valves. It does not degrade in contact with air.

APPLICATIONS:

- **Sugar Mills:** Electrical Motor Bearings, Cutters, Levelers, Pre-levelers, Disintegrators, Gear Couplings, Fibrizers bearings, Centrifugals, Pneumatic Valves Cylinders. ID Fans etc.
- **Cement Industry:** Rotary Kiln Car Bearings, Valve Gland Nuts, ID Fans, Electrical Motors, Crushers, Dryers, Vibratory Screens. Air Compressors. Cooler Fans and Motors etc.
- **Glass Manufacturing Industry:** Conveyor Belts, Pusher Bearings, Motors etc.
- **Textile Industry:** Top Rollers and Bushes of DO/2s and DO/6, RSB Draw Frames, Ring Frames, Air Motors and Electrical Motors, High Speed Spindles etc.
- **Wind Mills:** Rotor Main Bearings, Generator Bearings, Blade Pitch Bearings etc.
- **Paper Mills:** Pneumatic Cylinder Drives used on Control Valves, Valve Studs and Bolts, Chain Motors, High Speed Electrical Motors, Dryers, Pulp Washers, Fan Bearings, Coal Crusher Bearings and several Paper Machine Applications etc.
- **Power Plants:** ID Fans, Screw Conveyor Coal Feeder Bearings, Motors and High Speed Applications etc.
- **Steels & Aluminum Plant:** Motors, Lift Truck Wheel Bearings. Ropes, Gantry Crane Bearings, Lubrication of Conveyors, ID Fan Bearings, High Speed Blowers, Motors, Grinding Mills. Crushers, Shears. Rolling Mills. Travelling Cranes, Mechanical Presses, Cams, Toggle Joints. Slides ways etc.
- **Construction Equipment, Auto & Truck:** Chains of Forklifts, Pin Bush, Chassis, Wheel & Hub Bearings, Stone Crushers VSI bearings etc.
- **Application Industry:** Power Plants Shipbuilding and marine technology ▪ Catering equipment and food processing technology ▪ Chemical industry ▪ Municipal services ▪ Logistics ▪ Rail vehicle technology ▪ Iron and steel industry ▪ Glass and foundry industry ▪ Plant and machine (tool) engineering ▪ Paper and packaging industry ▪ Rubber and plastic processing.
- **Application** for example Anti-Lock Brakes, Automotive Sensors, Disk Drives, Electrical Connectors, Food Production Equipment, Jet Engine Actuators, Multi-Function Switches, Medical Technology, Printers & Copiers, Precision Aerospace Applications, Semiconductor Manufacturing, Single facer Roll Bearings, at tunnel kiln cars, baking, burn-in and drying furnaces, hot gas units, reaction vessels, boiler plants, roller and conveyor rollers in continuous furnaces, bearing points under influence of chemicals/fuel electronic, military, nuclear, data processing and other industries in need of high performance lubrication.
- **Centralized Industrial Greasing System:** In several other applications in general such as Compressors, Heavy Duty Motors, Power Generating Alternators, Cooling Tower Motors, Irrigation Pumps, Marine Parts etc to achieve significant reduction in noise, vibration and operating temperature.

ADVANTAGES, BENEFITS & FEATURES:

- **PFPE HTX-2** grease is known to be Excellent thermal stability by mechanically and chemically.
- Broad range of applications above the temperature limits of other lubricating greases.
- Providing effective lubrication and minimizing metal to metal contact.
- Excellent resistance to water wash out & Self-cleaning lubricant which does not gather dust.
- Provides excellent adhesion and assures a robust lubricating film under high shock loads.
- Resists of oil separation and does not migrate from hot surfaces.
- Maximum water and steam resistance.
- Contains extreme pressure and anti-wear additives that assures optimum lubrication.
- Increase life of equipment & Minimizes downtime and maintenance costs.
- Outstanding protection against rust and corrosion & high di-electric strength.
- While the **PFPE** has a very low static/gliding friction ratio hence very effective against back gliding.
- Extraordinary resistance to chemicals, for example to solvents, for example benzene, benzol, acetone, trichloroethylene and against inorganic acids, such as sulphuric acid, hydrochloric acid and nitric acid as well as stearic acids, alcohols and halogens.
- Excellent plastic and elastomer compatibility
- **PFPE HTX-2** gives long-term lubrication of lubrication points subjected to high pressure up to 300°C.

PROPERTIES OF PFPE HTX-2

NLGI grade	2
Fluid type	perfluoropolyether (PFPE) fluorinated synthetic oil
Solid lubricants Contents	5% white solid lubricants
Colour	White to Beige
Appearance	Smooth & buttery
Thickener	PTFE (Polytetrafluoroethylene)
Work Penetration	282
Viscosity at 40°C Cst	488
Viscosity at 100°C Cst	45
Drop Point °C	+300
4 Ball Weld Load	+800
Temperature Range	
Lower operating temperature	- 40°C
Upper operating temperature	280°C

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