

Castrol Inertox Heavy

Fully synthetic high-temperature grease

Description

Castrol Inertox™ Heavy is chemically and thermally one of the most stable lubricants in the Castrol range. Formulated from an advanced synthetic fluid and thickened with a non soap base which is temperature stable and fortified with a blend of additives and lubricating solids for exceptional wear protection.

Application

Inertox Heavy is designed for universal long-term application in anti-friction and plain bearings under hostile ambient conditions. Inert to most corrosive and/or other aggressive media.

For rolling and sliding bearings with extended re-lubrication intervals, high temperatures or under hostile ambient conditions such as in:

- paint drying lines
- film stretching machines
- tenter frames for textiles
- oven carriages in the ceramics industry

For lubrication of seals and friction points inside high vacuum chambers, such as found in the electronics industry. Temperature application range: -25°C/-13°F to +260°C/+500°F (at higher operating temperatures adequate ventilation must be ensured).

Advantages

- Excellent thermal and chemical stability – ensures the grease can operate in adverse applications and is resistant to:
 - hot and cold water, oils, oil-in-water emulsions
 - inorganic and organic acids, alkaline solutions
 - solvents based on hydrocarbons, e.g. naphtha, benzene, toluol, paraffin etc.
 - solvents based on chlorinated hydrocarbons, e.g. trichloroethylene (TRI), perchloroethylene (PER),
 - dichloromethane (methylene chloride) etc.
 - alcohols, ketones (acetone), halogens
 - radioactive radiation (gamma rays)
- High wear protection, excellent lubricating capabilities, good load carrying capacity, outstanding pressure resistance
 - leads to longer bearing life, extended lubrication cycles and uninterrupted service
- Extremely low evaporation loss in vacuum systems- ensures continual lubrication
- Non-flammable – grease can be exposed to extreme conditions ensuring safe use
- Good corrosion protection – helps prevent rust and oxidation on metal surfaces

Typical Characteristics

Test	Method	Units	Inertox Heavy
Appearance, Visual	-	-	White
Thickener Type	-	-	PTFE
Base Oil Type	-	-	PFPE
NLGI Grade	-	-	2
Density @ 20°C/68°F	ASTM D1475	g/ml	1.93
Worked Penetration, 60 strokes @ 25°C/77°F	ISO 2137 ASTM D217	0.1mm	265 - 295
Dropping Point	ISO 2176 ASTM D2265	°C/°F	None
Base Oil Viscosity @ 40°C/104°F	ISO 3104 ASTM D 445	mm ² /s	150 (*)
Corrosion Protection (SKF Emcor)	ISO 11007 ASTM D 6138	Rating	0/0
Water Resistance, 90°C/194°F, 3h	DIN 51807-1	Rating	0
Vapour Pressure Base Fluid @ 20°C/68°F	-	hPa	10 ⁻⁴
DIN Classification	DIN 51502	-	KFK 2 U-25
ISO Classification	ISO 6743/9	-	L-XCGHA-2

Subject to usual manufacturing tolerances.

* Fresh product, at temperatures above 100°C viscosity will increase gradually up to 500 mm²/s.

Additional Information

- Castrol Inertox Heavy should not be mixed with other greases or oils
- Clean the lubrication surfaces thoroughly with e.g. petroleum ether before application