



Product Data Sheet

OPTIMOL INERTOX MEDIUM and INERTOX HEAVY - the chemically and thermally most stable lubricants of the OPTIMOL grease range.

OPTIMOL INERTOX MEDIUM and INERTOX HEAVY for universal long-term application in anti-friction and plain bearings under hostile ambient conditions. Inert to most corrosive and/or other aggressive media.

OPTIMOL INERTOX MEDIUM allows longer relubrication periods at high temperature or high speed applications than OPTIMOL INERTOX HEAVY.

FEATURES

- physiologically safe
- excellent thermal and chemical stability
- indifferent to hot water, water repellent
- solvent-resistant
- extremely low evaporation loss in vacuum systems
- is not affected by gamma rays
- non-flammable
- high wear protection and outstanding pressure resistance
- good corrosion protection
- oxygen-stable
- pumpable in central lubrication systems
- temperature application range: -35°C/-31°F to +280°C/+536°F
- USDA-H2 Approval

USES

OPTIMOL INERTOX MEDIUM and INERTOX HEAVY are resistant to:

- hot and cold water, oil-in-water emulsions, oils
- inorganic and organic acids and alkalis over complete pH-value range
- solvents based on hydrocarbons, e.g. naphtha, benzene, toluol, paraffin, etc.
- solvents based on chlorinated hydrocarbons, e.g. trichloroethylene (TRI), 1,1,1-trichloroethane, perchloroethylene (PER), dichloromethane (methylene chloride) etc.
- alcohols, ketones (acetone), halogens and radioactive radiation (gamma rays).

OPTIMOL INERTOX MEDIUM and INERTOX HEAVY for extremely extended relubrication intervals in bearings of film stretching machines (plastics), tenter frames (textiles), oven carriages (ceramics) and high-temperature applications of various industries. For lubrication of seals and friction points inside of high vacuum chambers (electronic industry).

OPTIMOL INERTOX MEDIUM and INERTOX HEAVY are partially soluble in trichlorotrifluoroethane.

APPLICATION

Apply OPTIMOL INERTOX MEDIUM and INERTOX HEAVY only after thorough cleaning of the lubrication surfaces, e.g. with petroleum ether or trichloroethylene. Do not mix with other lubricants.

For further information please contact Technical Services.

Please See Reverse Side for Typical Properties

TYPICAL PROPERTIES**OPTIMOL INERTOX**

	<u>Medium</u>	<u>Heavy</u>
Color	White	White
Base Fluid	Synthetic	Synthetic
Vapor pressure base fluid, mbar, @ 20°C/68°F	10 ⁻⁹	--
Thickener	Organic	Organic
Base oil Viscosity, DIN 51562, mm ² /s @40°C°	400	160
NLGI grade, DIN 51818	2	2
Penetration, DIN ISO 2137, 0.1 mm Pw60	265-295	265-295
Density, g/cm ³ @20°C	1.97	1.93
Dropping Point, DIN 51801, °C/°F	> 260°C/>500°F	> 260°C/>500°F
Four Ball OK Load, DIN 51350; N	5500	5500
SKF Emscor, DIN 51802	0 No Corrosion	0 No Corrosion
Temperature range, °C °F	- 35 to 280 - 31 to 536	- 35 to 280 - 31 to 536

Subject to Usual Manufacturing Tolerances