

## **KELVINPLUS-1000**

Lithium-Calcium Sulphonate Grease

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### **Product Description**

KELVINPLUS- 1000 is premium quality Lithium and calcium sulphonate complex grease to withstand high temperature. This is specially formulated to meet the demand of severe high temperature and Strong resistance to shock loads and high pressure. The colloidal structure of Calcium Sulphonate greases gives them special properties and allows them to attain a high level of performance without recourse to high percentages of additives. This natural performance for this grease chemistry allows for effective, multi-purpose and long-lasting lubrication.

### **Application:**

KELVINPLUS- 1000 greases are recommended for both plain and rolling bearings. These are preferred for Lubrication under high load and high temperature conditions. Also used for Crusher screen bearings, Pelleting press bearings, Cables and capstans, Slide ways and Open gears.

### **Features and Benefits**

- It works on wide range of temperature
- Has excellent resistance to impacts and vibrations thereby enabling it to withstand sustained exposure to shock loads and high pressure
- Has excellent resistance to water wash out.
- Anti-corrosion protection even in salty environments
- High dropping point and service temperature

### **Additional Information**

In order to minimize potential incompatibilities when converting to new grease, all previous lubricant should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

## Typical Properties

Parameters	Test Method	KELVINPLUS-1000
NLGI	ASTM D 217	2
Colour	Visual	Brown
Appearance	Visual	smooth
Thickener		Lithium – Calcium Complex
Kinematic Viscosity of the base oil at 40°C	ASTM D 445	1000 CST
Service Temperature		-20 To 260 °C
Penetration at 25°C	ASTM D 217	280-310
Penetration after 100 000 strokes,0.1 mm	ISO 2137	+21
Dropping point ,°C	IP 396	318
Oil release 50 hours, 100 °C,%	ASTM D 6184	1.7
Oil release 168 hours, 40°C	NF T 60-191	1.1
Oxidation stability at 99°C +-0.5°C		
Pressure drop after 100 hours,psi	ASTM D 942	5
Pressure drop after 500 hours ,psi	ASTM D 942	16
EMCOR, distilled water	ISO 11007	0-0
EMCOR, synthetic sea water	ISO 11007	0-0
Copper corrosion, 24 hours at 100°C	ASTM D 4048	1b
Anti-wear and EP properties		
Four ball wear (scar diameter),mm	ASTM D2266	0.43
Four ball weld load ,kgf	ASTM D2596	420-440
Cold properties		
Penetration at -20°C,0.1 mm	ISO 13737	95
Flow pressure at -20°C,mbar	DIN 51 805	1160
Flow pressure at 1400 m bar,°C	DIN 51 805	-20
Torque at -20°C		
Starting torque ,g.cm	ASTM D 1478	890
After 1 hour		72



## Technical Data Sheet

**Available Packs: 5, 18,180 KG**

**Shelf Life - 36 Months from the Manufacturing month**

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

\*All related specifications are meets or exceeds.