



Grease PNI

High performance polymer thickened grease

Description

Grease PNI is a state of the art polymer-thickened grease. A special selection of synthetic base oils and additives provide optimal performance including superior anti corrosive and a unique EP/AW system. The unique polymer thickening system provides many advantages over conventional soap based greases, making the grease non-toxic, inert and providing an increased film thickness.

The special polymer thicker technology is providing characteristics which allow relatively low viscosity base oils, however it is possible to replace conventionally thickened greases which need a thicker base oil to warrant proper lubrication, as a result of the lower base oil a temperature reduction in the bearings can be achieved resulting in lower energy consumption.

Applications

Grease PNI 2 is suitable for a variety of applications where long life is a specific requirement. The non-ionic thickener is very suitable for sensitive materials like aluminum, ceramics and elastomers. The inertness of the thickener system makes

the grease compatible with most type of greases but makes it also suitable for applications where water and aggressive chemicals are an issue. Grease PNI 2 is very suitable for applications where the temperature is low, and good pumpability is needed. High speed applications in spindles. The low internal friction of the non-ionic thickener results in substantial operating lower temperatures in comparison with conventional thickened greases. Suitable for chuck lubrication because of its inert characteristics towards metal working fluids.

Properties

- Low temperature
- Long life
- Excellent water and chemical resistance
- Resistance against Metal Working Fluids
- Excellent pumpability
- Reducing energy consumption
- Lower operating temperatures



Typical performance data

	Test method	PNI 2
Thickener, soap type		Polymer
Base oil nature		Synthetic
Colour		Beige
Base oil viscosity @ 40 °C, cSt		47
NLGI consistency class	DIN 51818	2
Penetration 60W, x 0,1 mm	ASTM D217	265-295
Dropping point, °C	ASTM D566	>140
EMCOR corrosion test WWO distilled water	ISO 11007 mod	0-0
EMCOR corrosion test salt water	ISO 11007	0-0
Copper corrosion, 4h/100 °C	ASTM D4048	1a
4-ball wear test		
• Welding load, kg	DIN 51350-4	360
• Scar diameter 1h/40kg, mm	DIN 51350-5	1,0
Oil Separation 168h @ 40 °C	IP 121	3%
Evaporation loss @ 22h/100 °C, %	ASTM D972	0,5
Water resistance, 90 °C	DIN 51807/1	0
Water wash-out @ 1h/80 °C	ISO 11009	1%
Service temperatures, °C		-35 – 120

All performance data on this Technical Data Sheet are indicative only and can vary during production

Matrix Specialty Lubricants BV - info@lubes-portal.com – www.lubes-portal.com