

## Spheerol™ BNS 2

High temperature bearing grease

### Description

Castrol Spheerol™ BNS 2 is a non melting grease for the lubrication of plain and roller bearings at high temperatures. It has no drop point. This grease is based on an oxidation resistant, thermally stable base oil and an inorganic thickener.

### Application

Spheerol BNS 2 is suitable for the lubrication of bearings at high temperatures, such as soot blower bearings, in carriages for hardening, drying in tunnel ovens, also in bearings of bitumen mixing plants, cranes in foundries, etc.

Spheerol BNS 2 can be used at a temperature range of -20°C to +150°C, and for short periods at a temperature range of up to +220°C. Frequent re-greasing or grease change should be considered subject to application requirements.

### Advantages

- High oxidation stability.
- Wide range temperature of application.
- Easy to dispense.
- Good protection against corrosion.
- Reduces mechanical wear.

### Additional Information

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

## Typical Characteristics

Name	Method	Units	Spheerol BNS 2
Thickener			Bentone
NLGI Class	ISO 2137	-	2
Texture	Visual		Smooth
Colour	Visual	-	Brown
Dropping Point, Grease	IP 396	°C	300 min
Base oil kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	180- 220
Worked penetration at 25°C after 60 strokes	ASTM D217	0,1 mm	265 - 295
Working stability 60 / 100,000 strokes @ 25°C	ASTM D217	0.1 mm	60 max
Oil separation 168 hr / 40°C	IP 121	% wt	5 max
Anti-Rust Performance (Emcor)	IP220	rating	0/0 max
Oxidation Stability, 100 hr / 100°C	ASTM D942	bar	0.4 max
Copper Corrosion, 24 hours @ 100°C	ASTM D4048	rating	1b max
Water Resistance, 3 hr / 90°C	ASTM D1264 / DIN 51 807/1	rating	1-90 max
4 ball weld point	DIN 51806	kg	200 min
Flow pressure @ -20°C	DIN 51805	hPa	<1400

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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04 Jan 2016

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