



Product Data Sheet

Infinium Grease

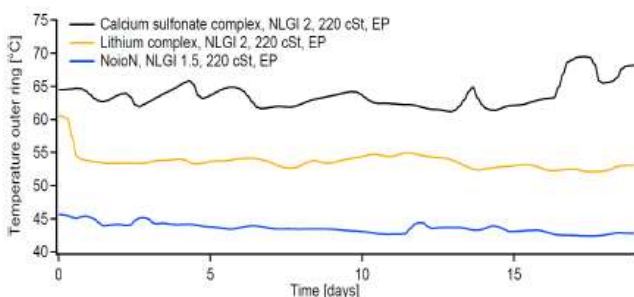
An Ultra Long-Life High-Speed Bearing Grease

Infinium Grease EP2 is a polypropylene thickened grease based on patented Epoch™ in synthetic fluids. The grease contains antioxidants, corrosion inhibitors and EP/AW additives based on bismuth chemistry.

This novel technology provides considerable advantages; The non-ionic and inert nature provide excellent compatibility to conventional lubricating greases, high resistance to process fluids and a long grease life.

The unique ability to adapt the lubricating film thickness to a wide range of speeds, and even varying speeds. The continuously regenerated lubrication film and in-situ created friction enhancers, reduce friction and running temperatures, which in turn, results in lowered temperatures and longer life of grease components.

Infinium Grease is a unique high performance synthetic lubricant suitable for a wide range of applications where reduced maintenance intervals; increased equipment life and equipment availability is needed. Furthermore, the product is able to serve sensitive materials such as Aluminium, ceramics and elastomers, handle challenging fluids with maintained lubricating ability. It is also well suited for use in centralised lubrication systems.



The ability of Infinium Grease to provide running temperatures and torques depends on the following:

- Lubrication film thickness is dependent on and adapts to the shear condition
- In-situ creation of friction enhancers Performance in field and bench tests (example shown) show that self-induced temperature is lowered considerably compared to soap-based greases

The ability Infinium Grease is to sufficiently lubricate an application under a very long time is attributed to the polypropylene thickener and its response to shear and thermal stress:

- The grease reservoir surrounding the contact zone allows the lubrication film to be continuously regenerated by the shear conditions
- Thermal stress does not negatively affect the lubrication film and in contrast to conventional technologies the product does not stiffen by oxidation
- Performance in field and bench tests show considerable improvement in lubricant and equipment life, providing substantial improvements on maintenance intervals and equipment availability.

WWW.ROYALLUBRICANTS.COM.AU

Brisbane:

1-7 Potassium Street, Narangba,
QUEENSLAND, AUSTRALIA 4504

Tel: +61 7 3203 0089 Fax: +61 7 3203 3700

...DRIVEN BY PERFECTION

Melbourne:

40 Kimberley Road, Dandenong South,
VICTORIA, AUSTRALIA 3175

Tel: +61 3 9768 2441 Fax: +61 3 9768 3325



Infinium Grease

An Ultra Long-Life High-Speed Bearing Grease

Product Code: 9041

Product Size: 450G, 20Kg, 180Kg

Typical Characteristics:

Thickener		Polypropylene
Base Fluid		Synthetic
Texture		Smooth
Colour	Visual	Yellow
NLGI Grade	ASTM D 217 mod	2
Dropping Point	IP 396	> 140°C
Base oil viscosity @ 40 °C	ASTM D 7152	260 mm ² /S
Base oil viscosity @ 100 °C	ASTM D 7152	34 mm ² /S
Penetration 60 strokes	ISO 3137	265 - 295
4-ball weld load	DIN 51350:4	3200 N
Water resistance at 90°C	DIN 51807:1	0
Emcor salt water °C	ISO 11007	≤ 2-2
Temperature range:		-30°C to +140°C
Density	IP 530	840 kg/m ³
SKF R2F B	SKF	Pass at 140°C

*Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute a legal liability.

Storage:

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

Health, Safety and Environment:

A Safety Data Sheet (SDS) is available for each product. Users should consult the SDS, and follow the precautions outlined and comply with all laws and regulations concerning its use and disposal. Used packaging material should not be incinerated or exposed to flame. After use, protect your environment. Do not pollute drains, soil or water with used product.

The Safety Data Sheet is available at Royal Precision Lubricants website www.royallubricants.com.au or by email info@royallubricants.com.au

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