

## ***Molykote*<sup>®</sup> BR 2 plus High Performance Grease**

### **FEATURES & BENEFITS**

- High load carrying capacity
- Suitable for long-term lubrication
- Good oxidation resistance
- Emergency running properties, i.e. in the case of mixed friction providing of wear protection by solid lubricants and EP additives
- Good protection against scaring (false Brinelling)
- Good water washout resistance
- Good corrosion protection
- Good protection against fretting corrosion

### **COMPOSITION**

- Mineral oil
- Lithium soap
- Solid lubricants
- EP additive
- Corrosion inhibitor

*Molykote*<sup>®</sup> BR-2 Plus High Performance Grease is a high performance grease with solid lubricants for metal/metal combinations involving slow to fast movements, particularly with medium to high loads

### **APPLICATIONS**

- Used successfully on roller bearings, plain bearings, sliding guides, roller guides, ball-and-socket joints, splined shafts and threaded spindles.

### **TYPICAL PROPERTIES**

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test*	Property	Unit	Result
	Color		Black
	<b>Consistency, density, viscosity</b>		
DIN 51 818	NLGI consistency class		2
ISO 2137	Worked penetration	mm/10	265-295
ISO 2811	Density at 20°C	g/ml	0.89
DIN 51 562	Base oil viscosity at 40°C <sup>1</sup>	mm <sup>2</sup> /s	114
	<b>Temperature</b>		
	Service temperature	°C	-30 to +130, +150 for short periods
ISO 2176	Drop point	°C	≥175
ASTM-D- 1478-80	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	151x10 <sup>-3</sup>
	Torque after 20 minutes running time	Nm	59 x10 <sup>-3</sup>
	<b>Load-carrying capacity, wear protection, service life</b>		
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld Load	N	3600
DIN 51 350 pt.5	Wear scar under 800N load Almen-Wieland machine	mm	0.8
	OK load	N	15,500
	Frictional force with OK load	N	3150
DIN 51821-02-B	FAG rolling element bearing tester equipment, FE 9, 1500/6000/ 140°C, F <sub>50</sub> }	h	195
	<b>Speed</b>		
	DN value <sup>2</sup>	mm/min	450,000
	<b>Resistance</b>		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.1

## TYPICAL PROPERTIES (continued)

Test*	Property	Unit	Result
DIN 51 802	<b>Corrosion protection</b>		
	SKF-Emcor method		0
	Oil separation - evaporation		
	Oil separation, 7 days, 40°C	%	3.8

\*DIN: Deutsche Industrie Norm.

ISO: International Standardization Organization.

ASTM: American Society for Testing and Materials.

<sup>1</sup>Calculated viscosity value of base oil mixture.

<sup>2</sup>DN values are calculated approximations and will vary widely with temperature, load and bearing type.

### DESCRIPTION

*Molykote*® BR-2 Plus High

Performance Grease is a lithium soap thickened, mineral oil grease fortified with MoS<sub>2</sub> and other solid lubricants. It is a heavy duty, extreme pressure lubricant with high load carrying capability at moderate to high speeds.

### HOW TO USE

#### How to apply

Clean points of contact. Apply in same way as lubricating greases, using brush, spatula, grease-gun or automatic lubricating device. Suitable for delivery by central lubricating system.

### HANDLING

#### PRECAUTIONS

##### PRODUCT SAFETY

**INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

### USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers, this

product has a usable life of 60 months from the date of production.

### PACKAGING INFORMATION

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

### LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

### HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [dowcorning.com](http://dowcorning.com) or consult your local Dow Corning representative.

### LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe,

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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