

# Product Information

## High Performance Lubricants

DOW CORNING

# Molykote® BG 20 High Performance Synthetic Grease

## FEATURES

- Handles wide temperature range, high speeds and heavy loads
- Very good low temperature torque

## COMPOSITION

- Polyolester grease with lithium complex thickener
- NLGI #2 Grease

**Synthetic grease handles high speed, high load, high temperature combinations**

## APPLICATIONS

- Advantageous in applications that experience high temperatures and extreme pressure or high speed, such as ball bearings of electrical motors, fans, calenders, presses, metal working machines, generators, utility switch contacts, spindles, dryers or other applications

## TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Method	Test	Unit	Result
	Color		Beige
	Oil Base		Ester
	Base Oil Viscosity, at 38°C (100°F)	SUS	200
	Thickener		Lithium complex
	Specific Gravity		1.01
ASTM D 217	Penetration, worked 60	mm/10	270
	Service Temperature Range, estimated	°C (°F)	-45 to 182 (-50 to 360)
ASTM D 566	Dropping Point	°C (°F)	>300 (>572)
ASTM D 1264	Water Washout	percent	2
Fed Std 791C	Oil Separation, 24 hr at 150°C (302°F)	percent	2.2
ASTM D 2596	Four-Ball Test, Weld Load	kg	265
ASTM D 2266	Four-Ball Test, Wear Scar, 1 hour at 75°C (167°F), 400 N	mm	0.87
	Dn Value (shaft size of bearing in mm x rpm), estimated		550,000
	Almen-Wieland Machine OK Load	N	20,000
ASTM D 1478	Low Temperature Torque Test		
	-20°C (-4°F)	N•m	207 x 10 <sup>-3</sup>
	-50°C (-58°F)	N•m	530 x 10 <sup>-3</sup>
ASTM D 1478	Low Temperature Torque Test, after 20 minute run		
	-20°C (-4°F)	N•m	130 x 10 <sup>-3</sup>
	-50°C (-58°F)	N•m	130 x 10 <sup>-3</sup>
	FAG Bearing Test, angular contact thrust ball bearings		
	160°C (320°F), 1500 N, 6000 rpm	hours	662
DIN 51802	Corrosion Protection, SKF Emcor	rating	1-2

<sup>1</sup>Dn values are calculated approximations and will vary widely with temperature, load and bearing type.

## DESCRIPTION

Molykote® BG 20 High Performance Synthetic Grease is a synthetic complex grease with outstanding properties including a wide temperature range estimated at -45 to 182°C (-50 to 360°F) and a high load-carrying

capacity. It combines the most important properties of silicone grease (wide temperature range) and solid lubricant-containing organic greases (high load-carrying capacity) in an ester-based grease.

## HOW TO USE

Apply *Molykote* BG 20 High Performance Synthetic Grease like any other grease. Follow instructions of bearing manufacturers. For optimum performance, *Molykote* BG 20 High Performance Synthetic Grease should not be mixed with other greases.

## 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 FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY CALLING YOUR GLOBAL DOW CORNING CONNECTION.

## USABLE LIFE AND STORAGE

*Molykote* BG 20 High Performance Synthetic Grease has a shelf life of 60 months from date of manufacture. Refer to product packaging for "Use By" date.

## PACKAGING

*Molykote* BG 20 High Performance Synthetic Grease is supplied in tubes, cartridges, and pails.

## LIMITATIONS

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

## SHIPPING LIMITATIONS

None.

## WARRANTY INFORMATION

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 Dow Corning's products are safe, effective, and fully satisfactory for the intended end use.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. 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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.