



**MOLYKOTE®**

FROM DOW CORNING

**High Performance Industrial Lubricants  
Application Selector Guide**



AV07061

**Pastes • Greases • Compounds • Oils • Coatings • Dispersions**

## Rolling Element Bearings



| Application                | Substrates       | Temperature Range [°C] | Other Considerations  | Molykote® Solution           |
|----------------------------|------------------|------------------------|---|------------------------------|
| Assembly/<br>Pre-treatment | Metal to metal   | -25 to +250            | Prevention of fretting corrosion  | TP-42                        |
| Operation                  | Metal to metal   | -30 to +130            | General purpose/high loads  | BR2 Plus                     |
|                            |                  | -45 to +180            | Synthetic/combinations of high load, temperature high speed (to 600.000 DN) | BG-20                        |
|                            |                  | -40 to +150            | Extreme high speeds/long life/low noise                                     | BG-555                       |
|                            |                  | +10 to +160            | Water wash-out resistance/low speed   | 1122                         |
|                            |                  | -30 to +150            | "Clean" white/food grade grease in NLGI #0, 1 or 2                          | G-0050FG, G-0051FG, G-0052FG |
|                            |                  | -40 to +150            | Multi-purpose synthetic/food grade  | G-4500, G-4501               |
|                            |                  | -40 to +177            | Synthetic lubrication/moderate to high loads                                | G-4700                       |
|                            |                  | -73 to +180            | Wide temperature range  | 33 Light, 33 Medium          |
|                            |                  | -20 to +290            | Extreme high temperatures   | 41                           |
|                            |                  | -40 to +200            | High temperatures   | 44 Light, 44 Medium          |
|                            |                  | -40 to +230            | Solvent resistance/high load/high temperature/NLGI #2                       | 3451                         |
|                            |                  | -65 to +250            | High temperature/chemical resistant   | HP-300                       |
| Storage protection         | Metal components |                        | Corrosion protection/dry film   | Metal Protector Plus         |

## Press Fit Joints



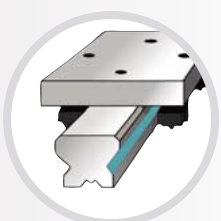
| Application | Substrates     | Temperature Range [°C] | Other Considerations             | Molykote® Solution |
|-------------|----------------|------------------------|----------------------------------|--------------------|
| Assembly    | Metal to metal | -35 to +450            | Very low coefficient of friction | G-Rapid Plus       |
|             |                | -25 to +450            | Medium coefficient of friction   | G-n Plus           |
|             |                | -25 to +250            | White product                    | D                  |
|             |                | -30 to +300            | White/food grade                 | P-1900             |

## Maintenance



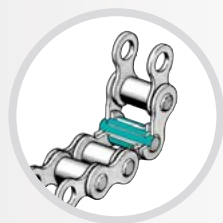
| Application                                 | Substrates                 | Temperature Range [°C]              | Other Considerations             | Molykote® Solution                                      |
|---|----------------------------|-------------------------------------|----------------------------------|---|
| Assembly of threaded connections            | Metal to metal             | -30 to +650                         | General purpose                  | 1000  |
|   |                            | -30 to +300                         | White/food grade                 | P-1900  |
|   |                            |                                     | Consistent assembly torque       | 1000  |
|   |                            | Aluminum or stainless steel         | -40 to +1400                     | No corroding/extreme temperature/sulphur and metal-free |
| Press fitting                               | Metal to metal             | -35 to +450                         | Very low coefficient of friction | G-Rapid Plus  |
|   |                            | -25 to +450                         | Medium coefficient of friction   | G-n Plus  |
|   |                            | -25 to +250                         | White product                    | D   |
|   |                            | -30 to +300                         | White/food grade                 | P-1900  |
| Disassembly                                 | Metal to metal             | -50 to +50                          | Loosen rusted parts              | Multigliss, Supergliss                                  |
| Corrosion protection                        | Metal to metal             | -30 to +300                         | Corrosive environment            | Cu-7439 Plus  |
| Storage: Corrosion protection               | Metal to metal             |                                     | Long stocking intervals          | Metal Protector Plus                                    |
| Oiled machine components                    | Metal to metal             | Depends on oil to which it is added | High loads                       | A, M-55 Plus  |
| Sticking of rubber, metal and plastic parts | Metal to plastic to rubber | -40 to +200                         | Silicone release agent           | Separator Spray   |

## Linear Motion Guides



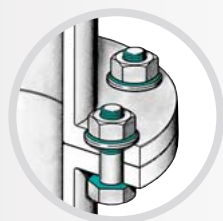
| Application   | Substrates     | Temperature Range [°C] | Other Considerations                    | Molykote® Solution |
|---------------|----------------|------------------------|---|--------------------|
| Operation     | Metal to metal | -25 to +120            | General purpose lubricant               | Multilub           |
|               |                | -25 to +110            | High loads                              | Longterm 2 Plus    |
|               |                | -40 to +180            | High temperatures                       | BG-20              |
| Pre-treatment |                | -65 to +175            | High wear due to intermittent operation | 3402C              |

## Chain Drives



| Application    | Substrates     | Temperature Range [°C] | Other Considerations                               | Molykote® Solution   |
|----------------|----------------|------------------------|--|----------------------|
| Greased chains | Metal to metal | +10 to +160            | Water wash-out resistant/high speeds               | 1122                 |
|                |                | -25 to +150            | High speeds/good penetration                       | MKL-N                |
|                |                | -40 to +230            | Tacky paste/wide temperature range/water-resistant | P-40                 |
|                |                | -180 to +450           | Long-term lubrication                              | D-321 R              |
| Oiled chains   | Metal to metal |                        | High-temperature chains/MoS <sub>2</sub> content   | M-30                 |
|                |                |                        | Extreme loads/high MoS <sub>2</sub> content        | M-55 Plus            |
|                |                | -10 to +200            | High temperature/low volatility/no odor            | L-1428               |
|                |                | -50 to +120            | Wide temperature range/PAO/food grade/tacky        | L-1468FG             |
|                |                |                        | Corrosion protection/dry film                      | Metal Protector Plus |

## Threaded Connections



| Application        | Substrates                  | Temperature Range [°C] | Other Considerations  | Molykote® Solution   |
|--------------------|-----------------------------|------------------------|---|----------------------|
| Pre-assembly       | Metal to metal              | -30 to +650            | High temperature/no scattering of assembly torque                           | 1000                 |
|                    |                             | -30 to +1100           | High temperature/general purposes/contains no lead or nickel                | HSC Plus             |
|                    |                             | -25 to +250            | White product   | D                    |
|                    |                             | -30 to +300            | White/food grade  | P-1900               |
|                    |                             | -40 to +1500           | Very high temperature/compatible to a wide range of high temperature steels | P-74                 |
|                    | Aluminum or stainless steel | -40 to +1400           | No corroding/extreme temperature sulfur and metal-free                      | P-37                 |
| Disassembly        | Metal to metal              |                        | Loosen rusted parts   | Multigliss           |
| Storage Protection | Metal components            |                        | Corrosion protection/dry film   | Metal Protector Plus |

## Power Screw Drives



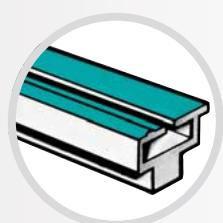
| Application | Substrates     | Temperature Range [°C] | Other Considerations                | Molykote® Solution |                                    |                     |
|-------------|----------------|------------------------|-------------------------------------|--------------------|------------------------------------|---------------------|
| Operation   | Metal to metal | -30 to +130            | General purpose                     | Multilub           |                                    |                     |
|             |                | -30 to +130            | General purpose                     | BR-2 Plus          |                                    |                     |
|             |                | -40 to +150            | Multi-purpose synthetic/food grade  | G-4500             |                                    |                     |
|             |                | -180 to +450           | Dusty environments/extreme pressure | D-321 R            |                                    |                     |
|             |                |                        | Plastic to metal/plastic to plastic | -73 to +180        | Wide temperature range/long life   | 33 Light, 33 Medium |
|             |                |                        |                                     | -40 to +150        | Multi-purpose synthetic/food grade | G-4500              |
|             |                | -40 to +230            | Chemical resistance                 | 3451               |                                    |                     |

## Control Cables



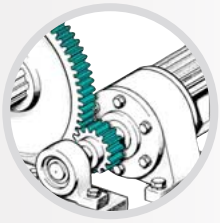
| Application        | Substrates       | Temperature Range [°C] | Other Considerations                | Molykote® Solution   |                                    |         |
|--------------------|------------------|------------------------|-------------------------------------|----------------------|------------------------------------|---------|
| Operation          |                  | -40 to +130            | General purpose semi-synthetic      | PG-75                |                                    |         |
|                    |                  | -73 to +180            | Wide temperature range/low friction | 33 Light, 33 Medium  |                                    |         |
|                    |                  |                        | Metal wire/cable too metal liner    | -180 to +450         | Dusty environments/low friction    | D-321 R |
|                    |                  |                        |                                     | -40 to +150          | Multi-purpose synthetic/food grade | G-4500  |
| Storage Protection | Metal components |                        | Corrosion protection/dry film       | Metal Protector Plus |                                    |         |

## Slides, Guides & Tracks



| Application        | Substrates               | Temperature Range [°C] | Other Considerations                              | Molykote® Solution   |
|--------------------|--------------------------|------------------------|---|----------------------|
| Operation          | Metal to metal           | -30 to +150            | "Clean" white grease/food grade                   | G-0052FG             |
|                    |                          | -30 to +300            | "Clean" white paste/food grade                    | P-1900               |
|                    |                          | -30 to +650            | High temperatures                                 | 1000                 |
|                    |                          | -25 to +450            | High loads  | G-n Plus             |
|                    |                          | -40 to +150            | Multi-purpose synthetic/moderate loads/food grade | G-4500               |
|                    |                          | -40 to +177            | Synthetic lubrication/high loads                  | G-4700               |
|                    |                          | -180 to +450           | Dusty environments                                | D-321 R              |
|                    |                          |                        | Aluminum surfaces/nonstaining                     | Metalfarm            |
|                    | Plastic to plastic/metal | -40 to +150            | Multi-purpose synthetic/food grade                | G-4500, G-4501       |
|                    |                          | -73 to +180            | Wide temperature range/long life                  | 33 Light, 33 Medium  |
| Storage Protection | Metal components         |                        | Corrosion protection/dry film                     | Metal Protector Plus |

## Gears



| Application        | Substrates   | Temperature Range [°C] | Other Considerations                                    | Molykote® Solution   |
|--------------------|--|------------------------|---|----------------------|
| Pretreatment       | Metal to metal   | -25 to +450            | Run-in lubricant  | G-Rapid Plus         |
| Operation          | Metal to metal   | -40 to +150            | Multi-purpose synthetic/food grade                      | G-4500               |
|                    |  | -40 to +177            | Synthetic lubrication/high loads                        | G-4700               |
|                    |  | +10 to +160            | Tacky grease  | 1122                 |
|                    |  | -40 to +230            | Tacky paste/wide temperature range/<br>water-resistant  | P-40                 |
|                    |  | -180 to +450           | Dusty environments                                      | D-321 R              |
|                    |  | -70 to +250            | Heat-cure bonded  | 106                  |
|                    |  | -40 to +130            | Multi-purpose semi-synthetic                            | PG-75                |
|                    |  | -45 to +150            | Multi-purpose synthetic/high loads/<br>fiber reinforced | EM-30L               |
|                    |  | -45 to +150            | Multi-purpose synthetic/high loads/<br>good adhesion    | YM-103               |
|                    |  | -73 to +180            | Wide temperature range/low friction                     | 33 Light, 33 Medium  |
| -35 to +250        | Very high temperatures/very good<br>compatibility/resistant to chemicals | HP-870                 |   |                      |
| In Gear Boxes      | Metal to metal   |                        | Extreme loads/reduce energy                             | M-55 Plus            |
|                    |  |                        | Heavily loaded, slow speed/<br>AW/EP additives          | L-21xx               |
|                    |  |                        | Excellent AW properties/bronze friendly                 | L-11xx               |
|                    |  |                        | Synthetic/food grade                                    | L-11xxFG             |
|                    |  |                        | Mineral oil/food grade                                  | L-01xxFG             |
| Storage Protection | Metal components   |                        | Corrosion protection/dry film                           | Metal Protector Plus |

## Plain Bearings, Bushings & Sleeves



| Application        | Substrates  | Temperature Range [°C] | Other Considerations                                    | Molykote® Solution   |
|--------------------|---|------------------------|---|----------------------|
| Pretreatment       | Metal to metal  | -25 to +450            | Run-in lubricant  | G-Rapid Plus         |
|                    |   | -70 to +200            | Solventless run-in coating                              | 7400                 |
|                    |   | -180 to +450           | Dusty environments                                      | D-321 R              |
| Operation          | Metal to metal  | -30 to +130            | General purpose   | BR-2 Plus            |
|                    |   | -45 to +180            | General purpose synthetic                               | BG-20                |
|                    |   | -30 to +150            | "Clean" white grease/food grade                         | G-0052FG             |
|                    |   | -40 to +230            | Tacky paste/wide temperature<br>range/water-resistant   | P-40                 |
|                    |   | -25 to +250            | "Clean" white paste/food grade                          | P-1900               |
|                    |   | -25 to +250            | Prevention of fretting corrosion                        | TP-42                |
|                    |   | -40 to +150            | Multi-purpose synthetic/<br>food grade                  | G-4500               |
|                    |   | -40 to +177            | Synthetic lubrication/high loads                        | G-4700               |
|                    |   | -40 to +230            | Chemical/solvent resistance                             | 3451                 |
|                    |   | -40 to +130            | Multi-purpose semi-synthetic                            | PG-75                |
|                    |   | -50 to +140            | Multi-purpose synthetic                                 | G-2003               |
|                    |   | -45 to +130            | Multi-purpose synthetic/<br>high loads/fiber reinforced | EM-30L               |
|                    |   | -45 to +150            | Multi-purpose synthetic/<br>high loads/good adhesion    | YM-103               |
|                    |   | -73 to +180            | Wide temperature range                                  | 33 Light, 33 Medium  |
|                    |   | -40 to +230            | Solvent resistance                                      | 3451                 |
|                    |   | -40 to +200            | Wash-out resistance/low speeds                          | 111 Compound         |
| -35 to +250        | Very high temperatures/<br>very good compatibility/<br>resistant to chemicals | HP-870                 |   |                      |
| Storage Protection | Metal components  |                        | Corrosion protection/dry film                           | Metal Protector Plus |

## Pastes

Grease-like materials containing a very high percentage of solid lubricants. Used for assembly and lubrication of highly loaded, slow moving parts for threaded fasteners.

1000  
Cu-7439 Plus  
D  
DX  
E  
G-n Plus

Molykote® Solution

G-Rapid Plus  
HSC plus  
HTP  
M-77  
P-37  
P-40

P-74  
P-1600  
P-1900  
TP-42  
U-n  
X

## Greases

Solid to semisolid materials consisting of a lubricating fluid, thickening agent and additives. Used on rolling element bearings and other moving parts.

41  
33 Light  
33 Medium  
44 Light  
44 Medium  
55 O-Ring  
165 LT  
822M  
1102  
1122  
1292  
3451  
3452  
7348  
7514  
BG-20  
BG-555  
BR2 Plus

Molykote® Solution

EM-30L  
EM-50L  
EM-60L  
FB 180  
G-67  
G-68  
G-72  
G-807  
G-0050FG  
G-0051FG  
G-0052FG  
G-0100  
G-0101  
G-0102  
G-1001  
G-2001  
G-2003

G-4500  
G-4501  
G-4700  
High Vacuum Grease  
HP-300  
HP-870  
Longterm 00  
Longterm 2 plus  
Longterm W2  
Multilub  
PG-21  
PG-54  
PG-65 Plastislip  
PG-75  
X5-6020  
YM-102  
YM-103

## Compounds

Grease-like materials composed of silicone fluids and silica fillers. Used for their sealing, dielectric, non-metal-to-metal lubricating and release properties.

Molykote® Solution

111 Compound  
Dow Corning® 4  
Dow Corning® 7  
Dow Corning® 340

## High-Performance Industrial Lubricating Oils

Based on hydroprocessed mineral oils or synthetic base stocks such as polyalphaolefin (PAO) and esters, these lubricating fluids are fortified with carefully selected additives to provide optimum performance and service life while maximizing protection of the equipment and machinery they are designed to lubricate.

Molykote® Solution

Chain Oils  
Compressor and Vacuum Pump Oils  
Gearbox Oils  
Hydraulic Oils and Multi-purpose Oils  
Special Purpose Oils

## Coatings

"Lubricating paints"; when applied, these materials cure to form dry, solid lubricant coatings that are bonded to the surface.

106  
3400A Leadfree  
3402C  
7400  
7405

Molykote® Solution

7409  
D 10  
D-321 R  
D-3484  
D-708

D-96  
L-0500  
Metal Protector Plus  
PTFE-N UV  
S-1010

## Dispersions

Finely divided solid lubricants suspended in lubricating fluids; preferred when it is necessary to apply solid lubricants in liquid form.

Molykote® Solution

A  
HTF  
M-30  
M-55 Plus

MKL-N  
Multigliss  
OmniGliss  
W15

\* For more information on the product and service offering in your area, please contact our sales representative or one of our offices listed in this brochure.

## How To Contact Us

For nearly 60 years, OEM designers, maintenance and materials engineers around the world have trusted the Molykote® brand for performance and expertise to solve or prevent lubrication problems. Molykote solutions are available through a distributor network of more than 3,000 channel partners around the globe. To learn more about our extensive product and service offering, visit [www.molykote.com](http://www.molykote.com) or email [industrial@dowcorning.com](mailto:industrial@dowcorning.com).

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