



**MOLYKOTE**  
FROM DOW CORNING



# Two applications. One grease.

*Advanced double-duty technology for performance and cost benefits*

*Smart Lubrication*<sup>™</sup> Solutions from Dow Corning

**DOW CORNING**

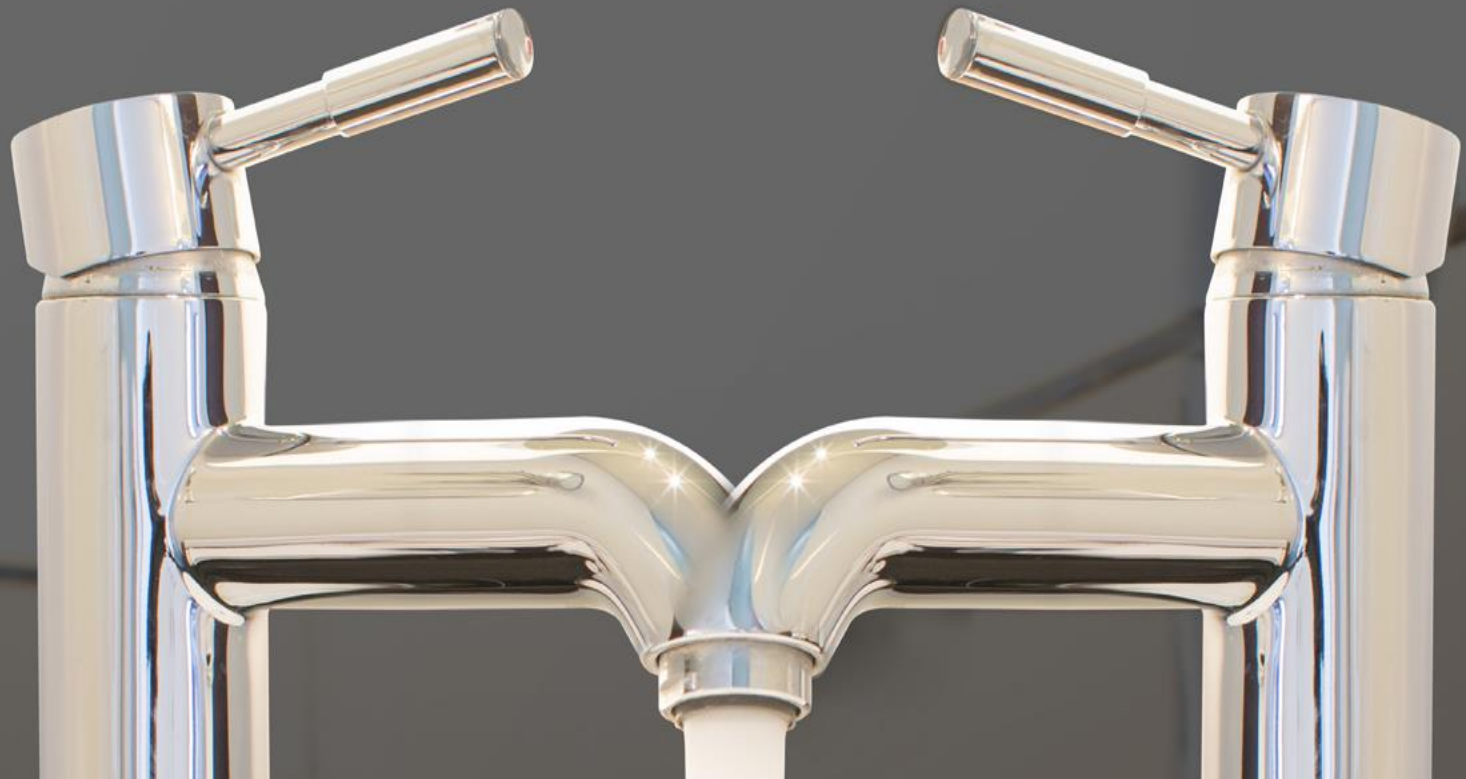
**GREASES | PASTES | OILS | COMPOUNDS | DISPERSIONS | ANTI-FRICTION COATINGS**





**MOLYKOTE<sup>®</sup> G-5511**

**WATER TAP GREASE**



**ONE GREASE** for

**TWO** water tap applications  
from **ONE** single supplier

# Dual Applications

## **Molykote® G-5511 Water Tap Grease**

- Ceramics and plastics — one grease for both applications
- Meets requirements of DIN EN 817 test



# Molykote® G-5511 Water Tap Grease

- Chemistry: silicone/PTFE
- Lubrication between ceramic discs, rubber gaskets and plastic components
- Meets several global standards for drinking water contact
- Excellent water resistance
- Improved coefficient of friction and tackiness/adhesion
- Good load-carrying capacity at lubrication point



# Drinking Water Contact

## **Molykote<sup>®</sup> G-5511 Water Tap Grease**

- Meets NSF/ANSI 61 Standard
- Complies with UBA guidelines for the hygienic assessment of lubricants with drinking water contact
- Complies with the requirements of the Water Regulation Advisory Scheme (BS6920:2000)
- Suitable for use with hot water (up to 85 °C) and cold water



# Molykote® G-5511 Water Tap Grease

Product	SRV		Penetration	Tack test
	Ok-Load	CoF $\mu$	mm/10	FN (N)
<b>Molykote® G-5511 Grease</b>	<b>350 N</b>	<b>0,54</b>	<b>298</b>	<b>-11,4</b>
Competitor 1	350 N	0,60	220-250	-5

## **Molykote® G-5511 Water Tap Grease provides:**

- Better tackiness/adhesion properties
- Better coefficient of friction
- Good load resistance





**OVERVIEW OF**

**COMPETITORS**



# Competitors' Products Overview

Product	Chemistry	SRV		Penetration	Tack test	Water resistance
		Ok-Load	CoF $\mu$	mm/10	FN (N)	
Competitor 1	Silicone/PTFE	350 N	0,55	220-250	-5	0-1
Competitor 2	Silicone	250 N	0,5	310-340	-6	0-1
Competitor 3	Non-silicone	350 N	0,15	265-295	-8	0-1
Competitor 4	Silicone/PTFE	300 N	0,5	280-310	-4	0-1



# Compatibility with Sealing Materials

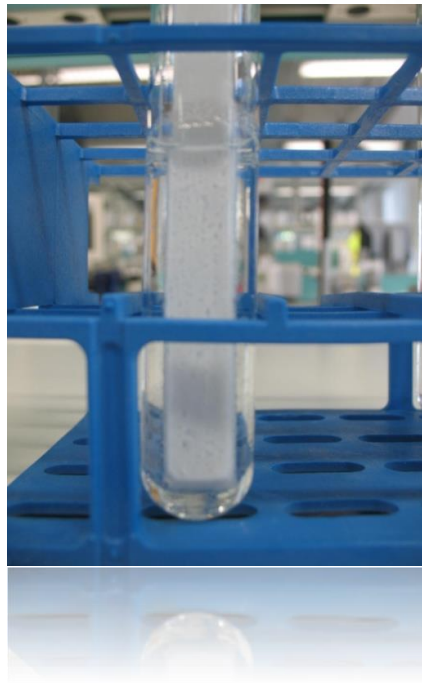
Sealing material	Blind test (weight change in %)	Test with <i>Molykote</i> <sup>®</sup> G-5511 (weight change in %)	Test with competitor (weight change in %)
Silicone	-0,23	5,66	9,4
NBR	-0,58	-5,93	-6,23

- Tested 7 days at 80 °C
- Test with *Molykote*<sup>®</sup> G-5511 Grease (weight change in %)
- Same compatibility with sealants as competitor's offering



# Water Resistance

- Tested 7 days at 90 °C (DIN 51807)  
Rating: 0
- Excellent water resistance



A close-up photograph of numerous water droplets of various sizes scattered across a dark, reflective surface. The droplets are in sharp focus in the foreground, while those in the background are blurred, creating a sense of depth. The lighting is soft, highlighting the spherical shape and reflections on the water droplets.

# TEST DESCRIPTIONS

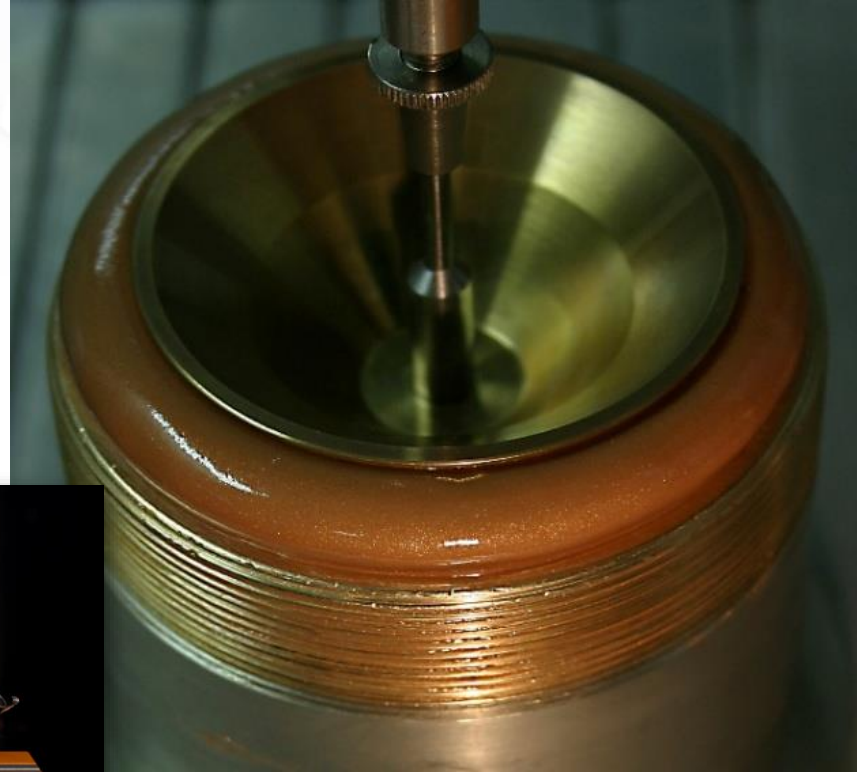
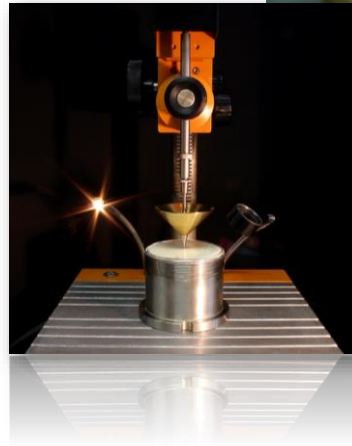
# SRV Test

- Lubrication point: ceramic ball/plate
- Measure friction and wear under oscillating or rotating motion
- Determine the load capacity and life of lubricating films



# Penetration Test

- Measure consistency of lubricating greases
- Measured variable: penetration of cone in 1/10 mm in 5 seconds
- Dependence of viscosity on rate of shear (worked penetration)



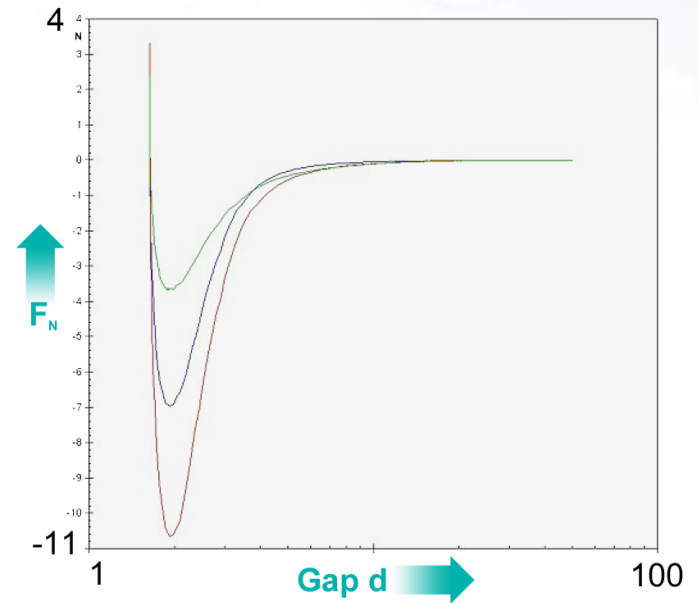
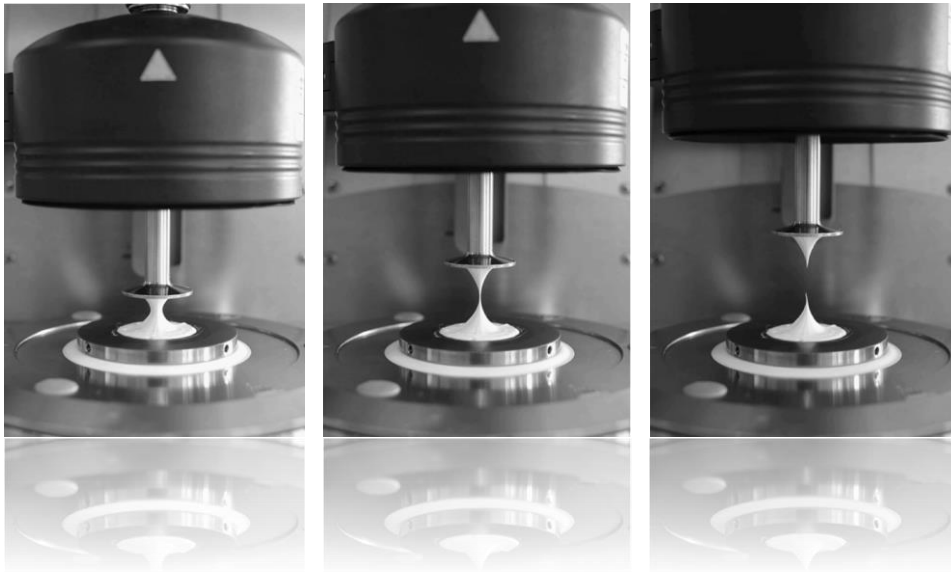
# Penetration Test *(continued)*

NLGI number	ASTM worked (60 strokes) penetration at 25 °C <i>tenths of a millimetre</i>	Appearance	Consistency food analog
000	445-475	fluid	cooking oil
00	400-430	semi-fluid	apple sauce
0	355-385	very soft	brown mustard
1	310-340	soft	tomato paste
2	265-295	"normal" grease	peanut butter
3	220-250	firm	vegetable shortening
4	175-205	very firm	frozen yogurt
5	130-160	hard	smooth pate
6	85-115	very hard	cheddar cheese



# Tack Test

- Measure the max force value
- Higher force → more tacky





# Water Resistance Test

- 1 mm grease layer on a glass plate (surface of 100 x 10 mm)
- DIN-Norm 51807, 3 hours at 90 °C, up to 7 days



A close-up photograph of a modern chrome water tap mounted on a white ceramic sink. The tap has a sleek, cylindrical design with a horizontal handle on the right side. The background is dark and out of focus. A teal-colored text box is overlaid on the right side of the image, containing the product name and description in white, bold, sans-serif font.

**MOLYKOTE® G-5511**

**WATER TAP COMPOUND**

# Summary of Features and Benefits

## **Molykote® G-5511 Water Tap Grease**

- Excellent water resistance
- Wide service temperature range (-40 to 200 °C)
- Compatible with many elastomers
- Lubrication between ceramic discs, rubber gaskets and plastic components in water taps
- Meets requirements of DIN EN 817
- Meets several global standards for drinking water contact



# Molykote® brand Lubricants – Smart Lubrication™

- Family of high-performance lubricants
- Trusted and respected worldwide for more than 65 years
- Designed for optimum lubricating and energy-saving solutions
- Constantly expanded into new, innovative lubrication technologies

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# Molykote® brand Lubricants – Smart Lubrication™

- The most complete line of industrial lubricants and fluids available from any single supplier in the world
- Available through a global network of distributors
- Expert technical service and support
  - Internationally recognized experts in lubrication products/services
  - Lubricant Expertise Centers strategically located worldwide



[www.molykote.com](http://www.molykote.com)



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**Thank you!**

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