



MOLYKOTE

FROM DOW CORNING



Two applications. One grease.

Advanced double-duty technology for performance and cost benefits

Smart Lubrication[™] Solutions from Dow Corning

DOW CORNING

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





MOLYKOTE® G-5511

WATER TAP COMPOUND



ONE GREASE for

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

Dual Applications

Molykote® G-5511 Water Tap Compound

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



Molykote® G-5511 Water Tap Compound

- 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® G-5511 Water Tap Compound

- 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 Compound

Product	SRV		Penetration	Tack test
	Ok-Load	CoF μ	mm/10	FN (N)
Molykote® G-5511 Compound	350 N	0,54	298	-11,4
Competitor 1	350 N	0,60	220-250	-5

Molykote® G-5511 Water Tap Compound provides:

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



A female scientist with dark hair, wearing clear safety goggles and a white lab coat, is looking intently through a white microscope. In the background, another scientist in a white lab coat and safety goggles is also working with a microscope. The scene is set in a bright, clean laboratory environment. A teal banner with white text is overlaid on the image.

OVERVIEW OF

COMPETITORS

Competitors' Products Overview

Product	Chemistry	SRV		Penetration	Tack test	Water resistance
		Ok-Load	CoF μ	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

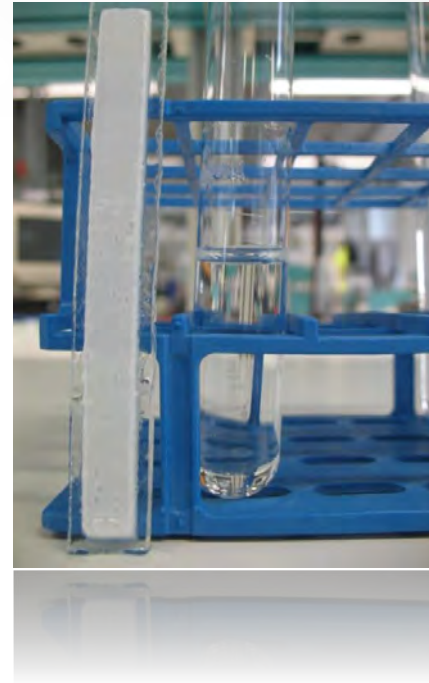
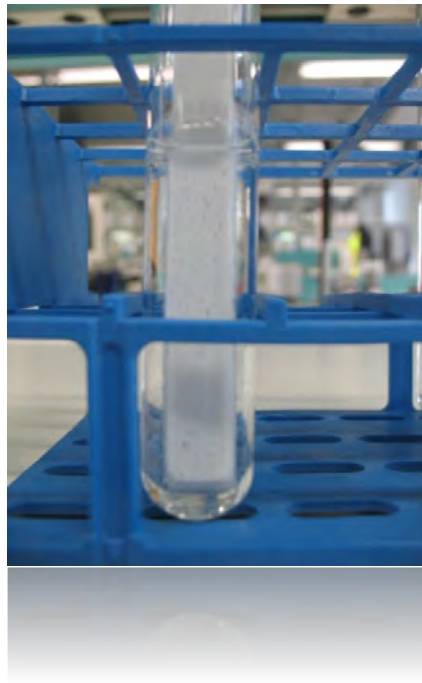
Sealing material	Blind test (weight change in %)	Test with <i>Molykote</i> [®] G-5511 (weight change in %)	Test with competitor (weight change in %)
Silicone	-0,23	5,66	9,4
NBR	-0,58	-5,93	-6,23

- Tested 7 days at 80 °C
- Test with *Molykote*[®] G-5511 Compound (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



The background of the image is a close-up, macro shot of numerous water droplets of various sizes scattered across a dark, textured surface. The lighting is soft, creating highlights on the top of the droplets and a slight shadow on the surface below them. The overall color palette is a range of blues and greys, from deep navy to light, misty tones.

TEST DESCRIPTIONS

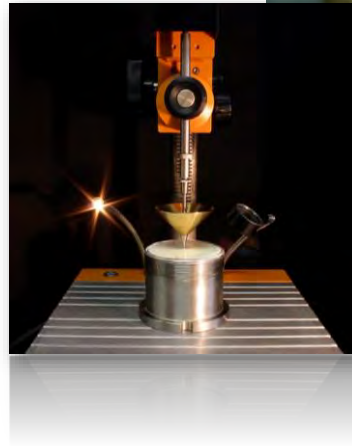
SRV Test

- 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)



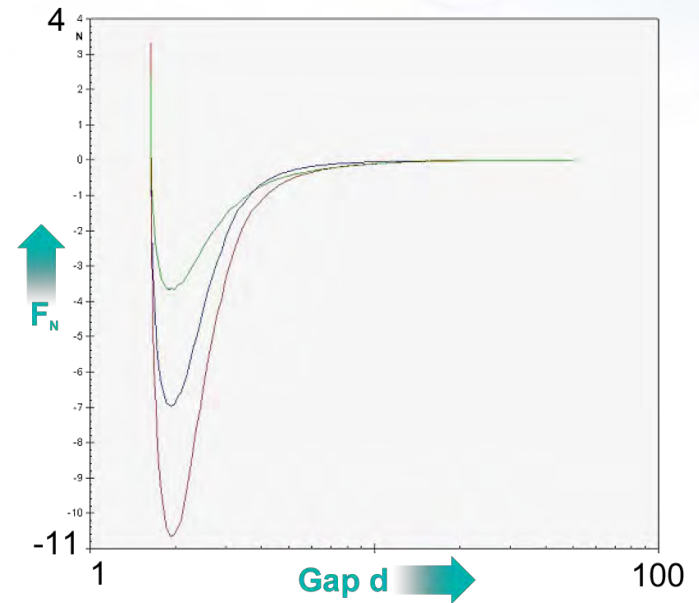
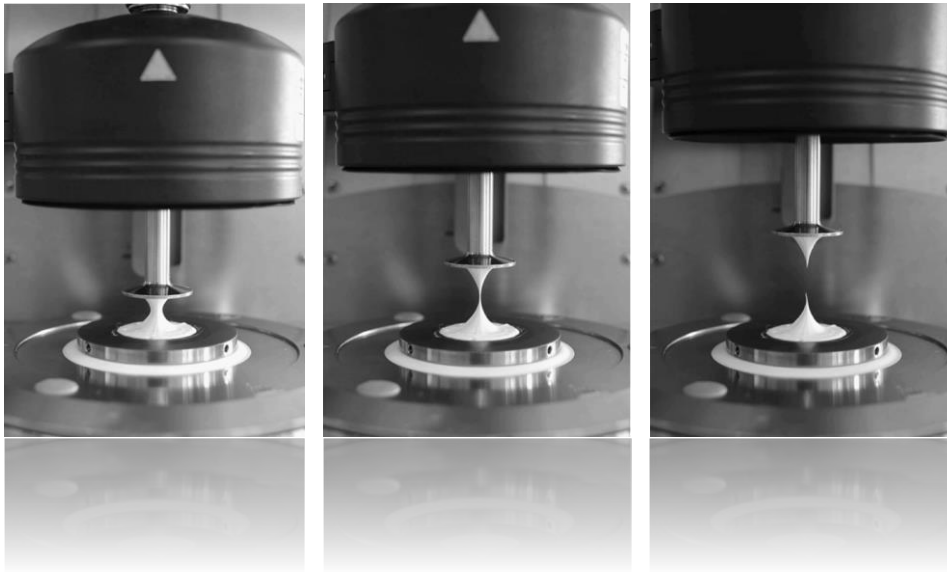
Penetration Test *(continued)*

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





MOLYKOTE® G-5511

WATER TAP COMPOUND

Summary of Features and Benefits

Molykote® G-5511 Water Tap Compound

- 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



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



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Thank you!

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