

# MOLYKOTE® G-N PLUS Solid Lubricant Paste

Solid lubricant paste for the assembly and running-in of metal components

## Features & benefits

- High load-carrying capacity
- Low coefficient of friction
- Prevents frictional corrosion and scoring
- Protection from stick-slip
- Good anti-corrosion properties
- Reduces formation of fretting corrosion
- Simplifies dismantling processes
- High surface-covering capacity (40 m<sup>2</sup>/kg)

## Composition

- Mineral oil
- Solid lubricants
- Thickener

## Applications

Press-fit production of all types of machine elements, as a running-in lubricant for new machines and gearboxes. Permanent lubrication of machine elements that are moved only rarely or slightly and also for drilling, sawing and thread cutting. Used successfully for lubricating threaded spindles, splined shafts, toothed gears, worm and transmission gears, screws, valves, pumps, and machine-tool guides and also for the tightening and fitting of roller bearings, washers, wheels, flanges and bolts.

## How to use

Clean the sliding surfaces or contact areas, then apply paste with a brush, cloth, synthetic sponge or window leather. Do not use in excess as with grease lubrication. Vigorous rubbing into metal surface will improve adhesion. Do not mix with greases or oils.

## Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

## Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard <sup>(1)</sup>	Test	Unit	Result
	Color		Black
<b>Penetration, density</b>			
ISO 2137	Unworked penetration	mm/10	280–310
ISO 2811	Density at 20°C (68°F)	g/ml	1.35
<b>Temperature</b>			
	Service temperature <sup>(2)</sup>	°C	-25 to +450 with reduced air access +630
		°F	-13 to +842 with reduced air access +1,166
<b>Load-carrying capacity, wear protection, service life</b>			
Four-ball tester			
DIN 51 350 pt.4	Weld load	N	2,800
DIN 51 350 pt.5	Wear scar under 800 N load	mm	0.75
Almen-Wieland machine			
	OK load	N	> 20,000
	Frictional force	N	2,600
<b>Coefficient of friction</b>			
	Press-fit test	μ	0.08, no scatter
Screw test: Erichsen <sup>(3)</sup>			
	Screw test - μ thread		0.12
	Screw test - μ head		0.06
<b>Resistance</b>			
DIN 51 807 pt.1	Water resistance, static, evaluation		2-90

<sup>(1)</sup>DIN: Deutsche Industrie Norm. ISO: International Standardization Organization ASTM: American Society for Testing and Materials.

<sup>(2)</sup>Temperature resistance of solid lubricants.

<sup>(3)</sup>Coefficient of friction in bolted connection, M12, 8.8, on blackened surface.

## Usable life and storage

When stored between 0°C and 40°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

## Packaging

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

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