

# glisseal®

## Silicone-free lubricating grease for ground joints, stopcocks and apparatuses



### Application

glisseal is suitable for sealing and lubricating fixed and rotary ground glass joints and for greasing fittings made of plastics and metal.

Due to its excellent thermal stability coupled with a constant consistency and low vapour pressure glisseal can be used to lubricate vacuum, high vacuum and reflux distillation equipment.

Ground joints and stirring equipment can be sealed gastight, but can be taken apart without problems even after prolonged use. Since glisseal is inert against most inorganic and organic compounds it guarantees accurate analytical results.

Glass apparatuses can be repaired without difficulties, since no interfering silicone residues are present. glisseal is also suitable for solving demanding greasing problems in the fine mechanical and optical industries.

Important notice: oxygen valves must not be greased with glisseal.

### Properties

- silicone-free
- withstands vacuum and high vacuum
- excellent thermal stability
- constant lubricating consistency between -40 °C and 250 °C
- no dripping point
- chemically stable against most acids, alkalis and gases
- insoluble in water and low molecular mono- and polyhydric alcohols such as ethanol, ethylene glycol, glycerine etc.
- can be dispersed in low molecular ketones, esters, amines, hydrocarbons, benzene derivatives, higher fatty acids, fatty acid esters and ethers

glisseal lubricating grease for laboratory equipment is available in two qualities

- glisseal N „normal quality“ - for applications in normal conditions and under vacuum
- glisseal HV „high vacuum“ - specifically suitable for applications under high vacuum



Please, find the physical data of both glisseal products on the backside.

### Information on use

Apply only a very thin layer of glisseal. Can be easily removed with the usual range of cleaning products for laboratory equipment. We recommend the use of deconex cleaning concentrate by Borer Chemie AG.

## glisseal physical-chemical data

		Normal quality with red cap	High vacuum quality with blue cap
Colour		transparent	dark brown
Working temperature range			
	with air access	-40 °C to 200 °C	-40 °C to 220 °C
	without air access	-40 °C to 300 °C	-40 °C to 320 °C
	short term peak	350 °C	400 °C
Dripping point		none	none
Vapor pressure	at 21 °C	2.10 <sup>-5</sup> Torr	2.10 <sup>-6</sup> Torr
Type of oil used		paraffin based	paraffin based
Type of thickening agent used		SiO <sub>2</sub>	SiO <sub>2</sub>
Content of the fat		87%	83%
Water content		0.3%	0.5%
Rest penetration	at 25 °C	250 mm/10	180 mm/10
Walk penetration	at 25 °C/60 h	250 mm/10	210 mm/10
Oil separation	7d/40 °C	3%	0.5%
Oxydation stability		0 Δpsi/100 h	2.5 Δpsi/100 h
according to Norma Hoffman		0 Kp/cm <sup>2</sup> /100 h	0.18 Kp/cm <sup>2</sup> /100 h

Availability	
Quality	
Normal	Tube of 60 g Can of 1 kg



Availability	
Quality	
High vacuum	Tube of 60 g Can of 1 kg



## Additional information

For information concerning safety at work, storage and waste disposal/effluent, please consult the corresponding safety data sheet.

Take advantage of our vast know-how! Please, contact us for further information regarding your specific application.



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### Manufacturer:

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