glisseal N
glisseal HV

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 guarantes 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.

Ingredients

Grease, thickener

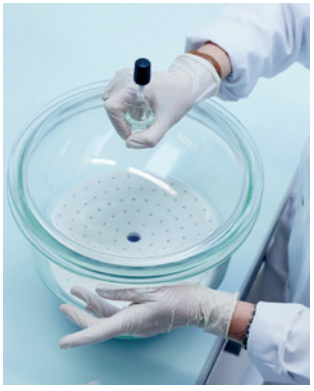
Properties

glisseal has the following special features:
- 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 - for applications in normal conditions and under vacuum
- glisseal HV - specifically suitable for applications under high vacuum

Instructions for 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.



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glisseal N / HV

Physico-chemical data

		glisseal N Withstands vacuum red	glisseal HV Withstands high-vacuum blue
Appearance		transparent	dark brown
Working temperature range			
	aerobic conditions	-40 °C to +200 °C	-40 °C to +220 °C
	anaerobic conditions	-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	2.7 x 10^{-3} Pa	0.27 x 10^{-3} Pa
Type of oil used		paraffin based	paraffin based
Type of thickening agent used		SiO_2	SiO_2
Content of the fat		87 %	83 %
Water content		0.3 %	0.5 %
Unworked penetration	at 25 °C	250 mm/10	180 mm/10
Worked penetration	at 25 °C	160-260 mm/10	160-260 mm/10
Oil separation	7d/40 °C	3 %	0.5 %
Oxidation stability according to Norma Hoffman		0 ΔkPa/100 h	17.238 ΔkPa/100 h

Availability	
glisseal N withstands vacuum conditions	
Mat. No. 514200.00-CA30	Box with 10 tubes of 30 g
Mat. No. 514205.00-D10G	Can of 1 kg

glisseal HV withstands high-vacuum conditions	
Mat. No. 514300.00-CA30	Box with 10 tubes of 30 g
Mat. No. 514315.00-D10G	Can of 1 kg

Additional information

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

Benefit from our expertise! Please contact us for practical information regarding your specific application.

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