iBiotec®

NEOLUBE® ALSI 220

100% SILICONE GREASE

food grade contact NSF H1

approved for contact with drinking water

Specially designed for valves

joints, elastomers, rubbers

very low temperatures

Antiscaling

Dielectric insulation

Meets the specifications NATO S 736 - MIL.S.8660 B

DESCRIPTION

Colourless, odourless, non-staining lubricant that is totally harmless and sensorially inert.

Completely insoluble in water, hot water, steam, marine environments.

Resistant to the spray or pressurised distribution of water or steam.

Inert in the presence of dilute chemical products: acids, bases, mineral or vegetable oils, ethanol, glycerol.

Excellent thermal stability at high and low temperature.

Perfect dielectric resistance. Isolating grease.

Completely compatible with elastomers, thermoplastic elastomers (TPEs), high-performance plastics, bi-material seals.

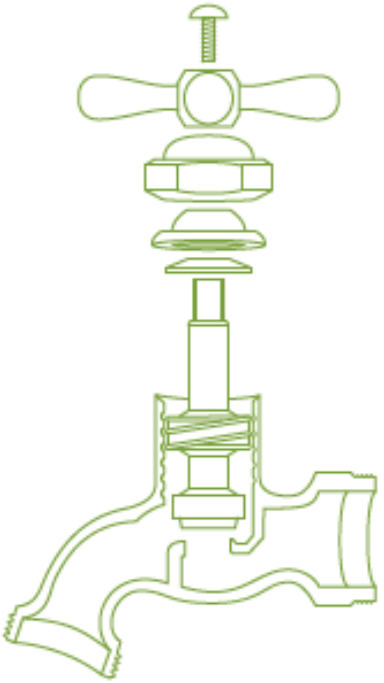
Prolongs the lifespan of seals, resolves alignment fault issues and leaks.

Continuous lubrication

-50°C +220°C

APPROVAL CERTIFICATION N°18 CLP NY 013
CONTACT WITH DRINKING WATER
DECREE DGS/VS4 N°2000/32

AREAS OF USE



Lubrication of taps and valves in the event of unavoidable or permanent pollution. Treated to prevent calcium deposits.
Lubrication of elastomers and plastic materials moving against metal.
Meters, gas taps, time stamp equipment, measuring equipment, marine and radio navigation equipment.
Water pumps, membrane pumps and vane pumps.
Assembly of radial, toric, lip, simple or supported seals.
Assembly of electrical bushings, routing of fibre optics.
Ski bindings. "Dead water" deck equipment.
Diving equipment, 1st level lubrication, beacons, watertight tanks, combination zip locks.
Lubrication of taps and ground glass joints in laboratories.
Mechanical freezing or deep-freezing components.

Download the data sheet

TYPICAL PHYSICO-CHEMICAL PROPERTIES

PHYSICAL PROPERTIES OF THE GREASE			
PROPERTIES	**STANDARD OR METHOD**	**VALUE**	**UNIT**
Appearance	visual	smooth, adhesive	nm
Colour	visual	translucent	nm

Apparent density at 25°C (pycnometer)	NF T 30 020	960	Kg/m³
NLGI Class	NLGI National Lubricating Grease Institute	3	Classification
Thickener	-	Inorganic	-
Solid lubricant content	-	Without	%
Penetrability at 25°C Non-worked Worked, 60 strokes Worked, 1,000 strokes Worked, 10,000 strokes Worked, 100,000 strokes	NF ISO 2137 / ASTM 2176	 250-280 265-295 305-335 335-365 In progress	 1/10° mm 1/10° mm 1/10° mm 1/10° mm 1/10° mm
Dropping point Dropping point if greater than 360°C	NF ISO 2176 / ASTM D 566 ASTM D 2265	Without Infusible	°C
Impurities > 25µm > 75µm > 125µm	FMTS 791 3005	 0 0 0	 nb/ml nb/ml nb/ml
PHYSICO-CHEMICAL PROPERTIES OF THE BASE OIL			
PROPERTIES	**STANDARD OR METHOD**	**VALUE**	**UNIT**
Characteristics of the base oil	-	Silicone	-
Kinematic viscosity at 40°C Kinematic viscosity at 100°C	NF EN ISO 3104	1000 750	mm^2/s mm^2/s
Acid value (AV)	NF ISO 6618	0.0	mg KOH/l
PERFORMANCE PROPERTIES			
PROPERTIES	**STANDARD OR METHOD**	**VALUE**	**UNIT**
Oil separation, 7 days at 40°C (bleeding)	NF T 60 191	0.0	% of mass
Oil separation 24 hours at 41kPa (bleeding under pressure)	ASTM D 1742	0	% of mass
Exudation maxi 24h at 150°C	NATO S 736 - MIL S.8660 B	0,1	%
Sulphated ashes	NF T 60 144	0	% of mass
Copper strip corrosion	ASTM D 4048	1b	Sizing
Hoffman oxidation	ASTM D 942	50	psi
Loss by evaporation 22 hours at 121°C	ASTM D 972	0.5	% of mass

Noack evaporation loss	NF T 60 101 CEC L-40 A-93 ASTM D5800	0.8	% of mass
Elastomer swelling 70h at 212°F	ASTM D 4289.83	< 0.5	Dimensional variation %
Temperature range Continuous Peak	 - -	 -50 +220 -50 +220	 °C °C
Rotation factor	$n.d_m$	50,000	$mm.min^{-1}$
4-ball test Wear scar diameter Wear load index	ASTM D 2266 / ISO 20 623	 Non applicable Non applicable	 mm daN
TIMKEN Test	ASTM D 2509	Non applicable	lbs
EMCOR rust-prevention test Dynamic Static	 NF T 60 135 ISO DP 6294/ ASTM D 1743	 2 2	 Rating Rating
Resistance to water washout at 80°C	ASTM 1264	< 4	% of mass

* not measured or not measurable

ADDITIONAL PROPERTIES			
PROPERTIES	**STANDARD OR METHOD**	**VALUE**	**UNIT**
Cold starting torque (-40°C)	ASTM D 1478-63	12	Newton meter
Operating torque (-40°C)	-	2	Newton meter
Dielectric rigidity at 25°C 100Hz (disruptive field)	IEC 156	2.8	KV cm-1
Volume resistivity at 25°C	IEC 156	1.1015	W/cm
Breakdown voltage	IEC 156	16,000	V
10 Hz dielectric constant	NFC 26230	2,5	-
Loss tangent at 10 Hz	NFC 26215	10^3	-
Volume resistivity	-	10^{15}	ohm/cm

* not measured or not measurable

INSTRUCTIONS FOR USE

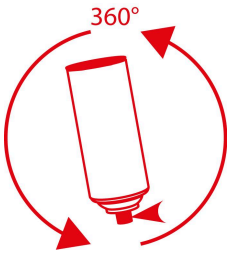
NEOLUBE® ALSI 220 is supplied in a tube, with a precision application cannula, in order to fill recesses intended to accommodate watertight seals. Use sparingly on clean surfaces.

PRESENTATIONS

Nonfood Compounds Program Listed H1 152745

EXPIRY DATE EXTENDED TO 4 Years

Nonfood Compounds Program Listed H1 149212



Aerosol 650 ml

Non-flammable and inert propella of natural origins 3%

Amount of active substanc contained in the a 97%

100 ml tube

Tin 1 L

100 ml tubes with crush-proof case and precisio
For application into grooves designed for holding gaskets, O ring quad rings, membranes, or on lip seals that are U-shaped, radial, or V-shaped axial. Static or dynamic gaskets.

Product suitable for the agro-foods industries (IAA)
Consistent with an HACCP approach or method
Risk analysis, critical factors in risk management
ISO 22 000 CODEX ALIMENTARIUS

NSF category:

H1 lubricant : can be used in areas in which food is manufactured. Can be used as a lubricant, anti-corrosion agent, as a non-stick agent for tank door hinges, as a lubricating grease for equipment in areas with potential contact with foodstuffs.

Looking for another product?

Discover our entire IAA range by clicking on the photo