

**MANUFACTURER OF TECHNICAL AEROSOLS AND PRODUCTS FOR INDUSTRY
PROCESSES - MRO - MAINTENANCE
ALTERNATIVE SOLVENTS 100% SAFE**

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**LITHIUM GREASE WITH A HIGH MoS₂ CONTENT
EXTREME PRESSURE, ANTI-WEAR,
ANTI-CORROSION, ANTI-PITTING, ANTI-FRETTING
FOR RELIABLE LUBRICATION
THAT IS EXTREMELY LONG-LASTING
REDUCES LUBRICATION FREQUENCY
iBiotec NEOLUBE® GR 140**

DESCRIPTION

Grease with a high MoS₂ content, suited to all general lubrication issues, in particular for use on plain and ball bearings. Easy resolution of wear and heating problems, while lengthening lubrication intervals. The submicronised solid lubricant particles provide effective protection of surfaces, in case of accidental rupture of the lubricating film, in a hydrodynamic system. Neolube® GR 140 is remarkably stable, does not harden, can be easily pumped, and is suitable for use in centralised automatic lubrication systems.

AREAS OF USE

General mechanical use, machine tools, auto mechanics, civil engineering, mines/pits, the steel industry, agricultural equipment.

Long-term lubrication of radio tribocontact ball bearings, roller bearings, taper roller bearings, needle roller bearings, open pinions.

Surface tribocontacts, plain bearings, joint bearings, cardans, bearing pins, worm gears, guidance systems, slide rails.

TYPICAL PHYSICO-CHEMICAL PROPERTIES

PHYSICAL PROPERTIES OF THE GREASE			
PROPERTIES	STANDARD OR METHOD	VALUE	UNIT
Appearance	visual	smooth	nm
Colour	in	black	nm
Apparent density at 25°C (pycnometer)	NF T 30 020	865	kg/m ³
NLGI Class	NLGI National Lubricating Grease Institute	2	Classification
Thickener	-	Lithium	-
Solid lubricant content	-	MoS ₂ <10µ	>3%
Penetrability at 25°C	NF ISO 2137 / ASTM 2176		
Non-worked		265-295	1/10° mm
Worked, 60 strokes		265-295	1/10° mm

Worked, 1,000 strokes Worked, 10,000 strokes Worked, 100,000 strokes		265-295 275-305 280-310	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	>180	°C
Impurities > 25 µm > 75 µm > 125 µm	FMTS 791 3005	0 0 0	nb/ml

PHYSICO-CHEMICAL PROPERTIES OF THE BASE OIL

PROPERTIES	STANDARD OR METHOD	VALUE	UNIT
Type of base oil	-	Mineral	-
Kinematic viscosity at 40°C Kinematic viscosity at 100°C	NF EN ISO 3104	140 110	mm²/s mm²/s
Acid value (AV)	NF ISO 6618	0.5	mg KOH/l

PERFORMANCE PROPERTIES

PROPERTIES	STANDARD OR METHOD	VALUE	UNIT
Oil separation, 7 days at 40°C (bleeding)	NF T 60 191	0	% of mass
Oil separation 24 hours at 41 kPa (bleeding under pressure)	ASTM D 1742	4	% of mass
Sulphated ashes	NF T 60 144	5	% of mass
Copper strip corrosion	ASTM D 4048	1b	Rating
Hoffman oxidation	ASTM D 942	40	psi
Loss by evaporation 22 hours at 121°C	ASTM D 972	2	% of mass
Noack evaporation loss	NF T 60 101 CEC L-40 A-93 ASTM D5800	3	% of mass
Elastomer swelling 70h at 212°F	ASTM D 4289.83	0.8	Dimensional variation %
Temperature ranges Continuous Peak	- -	-20 +140 -20 +150	°C °C
Rotation factor	n.d _m	500,000	mm/min ⁻¹
4-ball test Wear scar diameter Wear load index	ASTM D 2266 / ISO 20 623	0.65 3500	mm N
TIMKEN Test	ASTM D 2509	45	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	8	% of mass

* not measured or non-measurable



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