

iBiotec®

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

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iBiotec® NEOLUBE® GRV 190

GREEN MARINE GREASE SUPER TECH

EXTRE PRESSURE, ANTI-WEAR, ANTI-CORROSION

HIGHLY ADHESIVE, RESISTANT TO CENTRIFUGATION, INCLUDING AT HIGH SPEEDS

IMMERSION LUBRICATION

Meets Marine standard STM 7420 B

MAN 2232/79 MIL G 24139 NATO G 460

FULLY RESISTANT TO WATER SPRAY

RESISTS THE EFFECTS OF SHEARING, VIBRATIONS AND REPEATED IMPACT

MINE, PIT, SHIPPING AND PROFESSIONAL NAVAL USE

NON-FLAMMABLE, REVERSIBLE, LONG-TERM LUBRICATION

DESCRIPTION

A complex lithium/polymer grease for the lubrication of all parts operated in extremely severe conditions.

Maximum penetration, creating an anti-wear polar film over all internal components.

Adhesive, resistant to centrifugation. Completely insoluble in water, even when lubrication is submerged, in the presence of steam, and including when overheated.

Exceptional stability under very high loads, and in the event of shearing forces and vibrations.

Reversible, non-hardening, does not calcine, retains its structure and its properties in the event of accidental heating.

Non-flammable during use, even in the presence of electric arcs.

Complete stability and resistance to oxidisation, can reduce frequency of lubrication by up to a factor of 5.

FIELDS OF USE

Mechanical transmissions, roller bearings, rollers, bearings, fixed ratio transmission systems.

Linear guidance systems, conveyor belts, bucket conveyors, excavators.

Tractor fifth wheels.

Elevators, lifting chains.

Lubrication of cog racks enabling a large number of operating cycles.

Lubrication of winches, coffee grinders, outboard engine base plates, travel lift guides and rails.

PHYSICO-CHEMICAL PROPERTIES TYPICALS

PHYSICAL PROPERTIES OF THE GREASE			
PROPERTIES	STANDARD OR METHOD	VALUE	UNIT
Appearance	visual	smooth, viscous	nm
Colour	in	green	nm
Apparent density at 25°C/77°F (pycnometer)	NF T 30 020	780	kg/m ³
NLGI Class	NLGI National Lubricating Grease Institute	2	Classification
Thickener	-	Complex lithium	-
Solid lubricant content	-	0	%
Penetrability at 25°C/77°F Non-worked Worked, 60 strokes Worked, 1,000 strokes Worked, 10,000 strokes Worked, 100,000 strokes	NF ISO 2137 / ASTM 2176	265-295 265-295 265-295 265-295 295-325	1/10° mm 1/10° mm 1/10° mm 1/10° mm 1/10° mm
Dropping point Dropping point if greater than 360°C/680°F	NF ISO 2176 / ASTM D 566 ASTM D 2265	>190°C/>374°F	-
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/Polymer	-
Kinematic viscosity at 40°C/104°F Kinematic viscosity at 100°C/212°F	NF EN ISO 3104	>300 280	mm ² /s mm ² /s
Acid value (AV)	NF ISO 6618	0.2	mg KOH/l
PERFORMANCE PROPERTIES			
PROPERTIES	STANDARD OR METHOD	VALUE	UNIT
Oil separation, 7 days at 40°C/104°F (bleeding)	NF T 60 191	0	% of mass
Oil separation 24 hours at 41 kPa (bleeding under pressure)	ASTM D 1742	0.7	% of mass
Sulphated ashes	NF T 60 144	0.5	% of mass
Copper strip corrosion	ASTM D 4048	1a	Rating
Hoffman oxidation	ASTM D 942	<15	psi
Loss by evaporation 22 hours at 121°C/249,8°F	ASTM D 972	0.1	% of mass
Noack evaporation loss	NF T 60 101 CEC L-40 A-93 ASTM D5800	0.3	% of mass
Elastomer swelling 70h at 100°C/212°F	ASTM D 4289.83	0.4	Dimensional variation %

Temperature ranges			
Continuous	-	-30°C +190°C/-	
Peak	-	22°F +374°F	
		-30°C +190°C/-	
		22°F +374°F	
Rotation factor	n.d _m	600,000	mm/min ⁻¹
4-ball test	ASTM D 2266 / ISO 20 623		
Wear scar diameter		0.60	mm
Wear load index		3150	N
TIMKEN Test	ASTM D 2509	45	lbs
EMCOR rust prevention test			
Dynamic	NF T 60 135	0	Rating
Static	ISO DP 6294/ ASTM D 1743	1	Rating
Resistance to water washout at 80°C/176°F	ASTM 1264	<0.5	% of mass

* not measured or non-measurable

INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments after the ball in the can becomes detached.
Spray at a distance of 15 to 25 cm depending on the size of the mechanism to be lubricated.

PRESENTATIONS



3% FIREPROFF PROPELLANT

97% ACTIVE INGREDIENT

LAST 3 TIMES MORE
Atmospheric gas of natural origin non-flammable
Guaranteed without Butane Propane VOC highly inflammable
Guaranteed without HFC greenhouse effect fluorinated gas
Directive F.Gaz 5017.2014

Aerosol 650 ml



Cartridge 430 ml





EXPIRY DATE EXTENDED TO **5 Years**

Tin 1 L



Antoine GIRET - Class 3 sand yacht pilot
European Champion 2013 (St Peter-Ording - Germany)
French Champion 2015 (Notre Dame de Monts)
European Championship runner-up 2015 (De Panne - Belgium)
French Champion 2016 (Berck)
European Championship runner-up 2016 (Breteville-Sur-Ay)
Continuous seawater and spray, shocks, vibrations,
*Antoine GIRET uses **NEOLUBE GRV 190**, for unlimited lubrication*

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USAGE RESERVE AUX UTILISATEURS PROFESSIONNELS

Consulter la fiche de données de sécurité.

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