

0265.93

Bio Grease

NLGI 1/2

Ecological grease formulated with special natural origin and **highly biodegradable** raw materials. It possesses greasiness/adhesion and strong water repellent characteristics. Particularly suitable for sliding couplings (axle box, chain, fifth-wheel, etc.) with “loss” lubrication.

PAKELO BIO GREASE NLGI 1/2 follows the tight requirements of lubricants with very low impact to behavior and in particular to application by “loss lubrication”

PAKELO BIO GREASE NLGI 1/2 is formulated with selected raw materials from natural sources refined by industrial process and synthetic components that allows to reach a not noxious, ecological and highly biodegradable product.

PAKELO BIO GREASE NLGI 1/2 guarantees the following characteristics:

- very high biodegradability having advantages regarding impact to behaviour;
- low pour point: this allows good pumpability in automatic lubrication systems up to -20°C;
- high adhesivity: this reduces loss of lubricant by dropping or centrifugation;
- high oily characteristics and water repellancy;
- **compatibility** with **gaskets** normally used in hydraulic systems: the product provides complete compatibility with fluorocarbon polymers, fluorosilicone rubber, nitrile rubber (>30% acrylonitrile), polyacrylate, polyurethane and silicone rubbers. It has partial compatibility to be evaluated case by case with natural and butyl rubber, ethylene-propylene copolymers, nitrile rubber (<30% acrylonitrile), ethylene-propylene terpolymers and polychloroprene;

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Application fields

PAKELO BIO GREASE NLGI 1/2 is particularly suitable for lubrication of sliding couplings (axle box, chain, fifth-wheel, etc.) and in general for machinery having loss lubrication systems.

It is recommended for lubrication of chain saw typically used in marble extraction and transformation industry.

PAKELO BIO GREASE NLGI 1/2 can be applied by manual or pneumatic pumps and also by automatic lubrication systems.

Biodegradability

On the basis of raw materials data, the product can be classified as biodegradable according to CEC L-33-A-93.

Chemical-Physical Characteristics

Bio Grease	Method analysis	Unit measure	Value NLGI 1/2
Colour	-	-	marrone chiaro
Appearance	-	-	pomatoso
Thickener	-	-	litio
NLGI grade	ASTM D217	-	1/2
Worked Penetration 60 strokes at 25°C	ASTM D217	0,1 mm	300
Worked Penetration 10.000 strokes at 25°C	ASTM D217	0,1 mm	300 (+/-20)
Dropping Point	ASTM D566	°C	185
Base Oil Density at 15°C	ASTM D1298	kg/l	0,891
Recommended Working Temperatures	-	°C	-20 / +120

The data just above refer to average values and must not be understood as guaranteed characteristics.

This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.