



Description

BIO ADHESIVE PLUS is a unique biodegradable calcium grease.

Applications

- + BIO ADHESIVE PLUS has been designed to cope with lubrication under difficult conditions of temperature or humidity.
- + BIO ADHESIVE PLUS is an adhesive biodegradable grease specially formulated to lubricate metal cables, wire ropes and winches.
- + BIO ADHESIVE PLUS was developed for once-through lubrication in situations where there are environmental constraints.
- + BIO ADHESIVE PLUS is easily applied manually with a brush or other adapted tool.

Environmentally Acceptable Greases (EAL)

Specifications

- + Environmentally Acceptable Lubricant (EAL) for the 2013 Vessel General Permit (VGP).
- + ISO 6743-9: L-XBBIA-1
- + DIN 51502: ME1E-20

Features and Benefits

- + Thanks to its innovative formula BIO ADHESIVE PLUS meets the more stringent requirements of the dedicated marine application.
- + Excellent adhesion on wire ropes and cables.
- + Outstanding water resistance and anti-corrosion properties.
- + BIO ADHESIVE PLUS does not contain lead or heavy metals considered harmful to human health and environment.
- + BIO ADHESIVE PLUS is ultimately biodegradable (OECD 301B > 60%).
- + Miscible with most conventional greases.

Typical Characteristics

	Methods	Units	
Soap/thickener		–	Calcium
NLGI Grade	ASTM D217/DIN 51818	–	1
Color	Visual	–	Brown
Appearance	Visual	–	Smooth
Operating temperature range		°C	-20 to 90
Penetration at 25°C	ASTM D217/DIN 51818	0.1mm	310 – 340
Anti-rust performance SKF-MECOR	ISO 11007 (distilled water)	Rating	0/0
Anti-rust performance SKF-MECOR	ISO 11007 (sea water)	Rating	1/1
Dropping Point	ISO 2176	°C	> 145
Adherence Test under watter pressure at 40psi	ASTM D4049	%	43
Kinematic viscosity of the base oil at 40°C	ASTM D445/DIN 51562-1/ ISO 3104	mm ² /s (cSt)	320
Biodegradability	OECD301B	%	> 60

Characteristics of this chart are indicative typical values.

Handling, Health & Safety

BIO ADHESIVE PLUS grease contains synthetic base oil with additives. In normal conditions of use, these lubricants present no particular toxic hazard. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: www.quickfds.com and www.totallubmarine.com