

# BIOADHESIVE PLUS



Grease

**Biodegradable calcium grease. Environmentally Acceptable Lubricant (EAL). Excellent adhesiveness and water resistance.**

## APPLICATIONS

**Biodegradable  
Water resistant grease  
Applications in marine and industry**

- **BIOADHESIVE PLUS** is especially designed for the protection of metallic pieces in presence of water (including sea water).
- **BIOADHESIVE PLUS** is used in marine applications and dam for lubrication and protection on slide rails, metal cables, wire ropes, winches, chains...
- **BIOADHESIVE PLUS** is adapted for the static protection of spare parts.
- **BIOADHESIVE PLUS** is suitable for loss lubrication in environmental sensitive areas.
- **BIOADHESIVE PLUS** can be applied by hand with a brush or other adapted tool. For optimal lubrication and performances, keep the applying tools as clean as possible.

## SPECIFICATIONS

- Meets US EPA 2013 VGP requirements for environmentally acceptable lubricants (EAL)
- ISO 6743-9: L-XBBA 1
- DIN 51502: ME1E-20

## ADVANTAGES

**Water resistant and anti-corrosion properties**

**Low environmental impact : biodegradable**

- **BIOADHESIVE PLUS** is insoluble in water, leading to a remarkable resistance to water wash-out.
- **BIOADHESIVE PLUS** has excellent anti-corrosion properties even in the presence of sea water.
- **BIOADHESIVE PLUS** has very good adhesion on metallic pieces in general.
- **BIOADHESIVE PLUS** does not contain lead or other heavy metals considered as harmful to human health and to the environment.
- **BIOADHESIVE PLUS** is an ultimately biodegradable, minimally toxic and non-bioaccumulative grease (according to OECD 301B test).

TYPICAL CHARACTERISTICS	METHODS	UNITS	BIOADHESIVE PLUS
Soap/thickener		-	Calcium
NLGI grade	ASTM D 217/DIN 51 818	-	1
Color	Visual	-	Light brown
Appearance	Visual		Smooth, very tacky
Operating temperature range		°C	- 20 to +90
Penetration at 25 °C	ASTM D 217/DIN51 818	0.1 mm	310 - 340
Anti-rust performance SKF - EMCOR – distilled water	ISO 11007	Rating	0/0
Anti-rust performance SKF - EMCOR – salt water	ISO 11007	Rating	1/1
Dropping point	IP 396/NFT 60 627	°C	145
Adherence test under water pressure at 40 psi	ASTM D 4049	%	45
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/ IP71	mm <sup>2</sup> /s	320
Biodegradability	OECD 301 B	%	>60%

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS  
INDUSTRIE**

03-10-2014 (supersedes 07-07-2011)  
BIOADHESIVE PLUS  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).