

BIOADHESIVE PLUS



Grease



Biodegradable calcium grease. 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

- ISO 6743-9: L-XBBIA 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 grease (>60% 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 ² /s	320
Biodegradability	OECD 301 B	%	>60%

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
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. is obtainable via your commercial adviser www.quick-fds.com.