

BIOGEL ELCA 2

Lithium-Calcium Greases

Description

BIOGEL ELCA 2 is a high-performance, biodegradable EP grease formulated with specialized synthetic base oils. Its eco-conscious formulation meets the strict requirements of the European Ecolabel (EEL).

Applications

Ideal for construction machinery, mining equipment, hydraulic structures, locks, wastewater treatment plants, ports, agricultural machinery, and rail systems. BIOGEL ELCA 2 ensures reliable lubrication of bearings and other points under heavy or intermittent loads, while minimizing environmental impact—perfect for areas where excess grease could enter soil, water, or sewage systems.

Special Features

- Worked stability
- Very good corrosion protection
- High adhesion
- High pressure absorption capacity
- Water resistant
- Oxidation-resistant
- Good UV resistance

Minimum Storage Period

The minimum storage period is approximately 36 months in closed original packaging at temperatures between 5 °C and 40 °C. Visual inspection is recommended after exceeding this period. Protect from frost, heat and direct sunlight.

Typical Characteristics

BIOGEL ELCA 2	METHOD	Unit	Min	Max	Typical
Thickener					Lithium/Calcium
Service temperature range*		°C	-30	140	
Dropping point	DIN ISO 2176	°C	170		
Worked penetration after 60 DS	DIN ISO 2137	1/10 mm	265	295	
Base Oil Viscosity at 40 °C, cSt	DIN ISO 3104	mm ² /s			150
Emcor-Test; DI water	DIN 51 802				0-0
Emcor-Test; 3% NaCl	DIN 51 802				2-2
Water Resistance	DIN 51 807-01				0-90
Copper Corrosion	DIN 51 811				1-120
Mechanical-dynamic Test FAG-FE9	DIN 51821-02-B/1500/6000-140	h			F50>100
Four Ball Welding Load	DIN 51 350-04	N	3600		
Four Ball Wear Scar 1000N/1 min	DIN 51 350-05	mm		0,8	
Flow Pressure at -30 °C	DIN 51 805	hPa		1400	
Designation	DIN 51 502				KPE 2 N-30

Method of Application

BIOGEL ELCA 2 offers easy and reliable application, either manually or with a standard grease gun. For first-time use, simply ensure compatibility with any previously applied grease and, if needed, clean bearings beforehand. Apply the recommended amount to achieve optimal performance—no over-lubrication required. Designed for both high efficiency and minimal environmental impact, BIOGEL ELCA 2 makes sustainable lubrication simple and effective.

Health and Safety

This product range has been specially designed so as to have minimal effect on the environment.

	METHOD	
Biodegradability, %	OECD 301B	> 60

Avoid prolonged or repeated contact of used lubricants with skin. In case of skin contact wash well. Used lubricants should be collected in special containers and disposed of in accordance to local legislation. For additional information please consult with the Safety Data Sheet (SDS).

Available Packages

Pail [4 kg], Pail [8 kg], Pail [30 kg], Drum [180 kg]

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