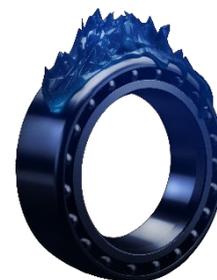


TECHNICAL PRODUCT SHEET

# PREMUS<sup>™</sup> LI-CA NLGI 1, 2, 3



## DESCRIPTION

PREMUS<sup>™</sup> LI-CA is a range of premium quality mixed soap (Lithium/Calcium) universal greases, extremely stable in presence of excess water with excellent mechanical and thermal stability.

## APPLICATIONS

PREMUS<sup>™</sup> LI-CA is specially recommended for the lubrication of bearings and mechanisms working in harsh environments (vapor, water, sludge, high temperature, dust, heavy loads). It covers efficiently a wide variety of applications in steel, cement and paper production plants, earth moving equipment, public work contractors' machinery, transportation etc. In industrial environments, particularly where vapor, water, dust, mud and elevated temperatures are a common problem, PREMUS<sup>™</sup> LI-CA greases exhibit extraordinary performance.

## SPECIFICATIONS

NLGI 1	DIN51825 K1K-20	ISO 6743/9 L-X-BCEA1
NLGI 2	DIN51825 K2K-20	ISO 6743/9 L-X-BCEA2
NLGI 3	DIN51825 K3K-20	ISO 6743/9 L-X-BCEA3

## PROPERTIES

PREMUS<sup>™</sup> LI-CA provides excellent resistance to water washout and ensures exceptional adherence to metal surfaces for reliable lubrication. Its high mechanical and shear stability supports consistent performance under demanding conditions. Ideal for lubrication rationalization in small and medium-sized industrial plants, it offers versatility and long-lasting protection.

## BENEFITS

PREMUS<sup>™</sup> LI-CA delivers excellent antiwear properties for enhanced component protection and extended service life. It is fully compatible with lithium, lithium complex, and anhydrous calcium soap-based greases, ensuring easy integration into existing lubrication systems. Additionally, it provides superior rust and corrosion protection, even in harsh environments.



## TECHNICAL PRODUCT SHEET

### PHYSICAL-CHEMICAL CHARACTERISTICS

PREMUS™ LI-CA	METHOD	1	2	3
<b>NLGI Grade</b>				
Color/Appearance	Visual	Brown	Brown	Brow
Texture	Visual	Smooth	Smooth	Smooth
Thickener type		Mixed Li-Ca	Mixed Li-Ca	Mixed Li-Ca
Base Oil		Blend of mineral oils	Blend of mineral oils	Blend of mineral oils
Base oil viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	150	150	150
Dropping point, °C	ASTM D2265	195	197	197
Worked penetration, 10 <sup>-1</sup> mm @25 °C				
- 60 strokes	ASTM D 217	310-340	265-295	220-250
- 100,000 strokes		+8%	+8%	+10%
Wear preventive characteristics				
- Scar diameter, mm	ASTM D 2266	0.47	0.47	0.50
Oxidation stability test, psi drop/100hrs	ASTM D 942	2.5	2.5	2.5
Oil separation, wt. %	ASM D 1742	4.5	3.5	3.0
Water washout @ 79 °C, wt. %	ASTM D 1264	-	3.2	2.8
Antirust properties	ASTM D1743	pass	pass	pass
Operating temperatures, °C		-20/+120	-20/+120	-20/+120

The above mentioned characteristics represent mean values.

### STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



### HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



### USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

