

# Greases

## LITHIUM / CALCIUM GREASES



**MULTIS** and **LICAL** products are a high performance range of multipurpose greases based on Lithium / Calcium thickener. They are available in NLGI grades from 000 to 3, with or without solid additives.

**MULTIS** and **LICAL** greases are formulated to provide good protection against wear, rust and water wash out. **MULTIS** and **LICAL** greases permit the rationalisation of stocks and the reduction of maintenance cost.

<b>MULTIS / LICAL</b>								
PRODUCT	APPLICATIONS	SPECIFIC ADVANTAGES	THICKENER	NLGI GRADE	BO VISCOSITY*	OPERATING TEMPERATURE RANGE	SPECIFICATIONS	
							ISO 6743-9	DIN 51502
<b>MULTIS</b> 2	• Multipurpose grease for automotive and industrial applications.	• Compatible with most conventional soaps.	Lithium / Calcium	2	120	-25 °C to +120 °C	L-XBCEA 2	K2K-25
<b>MULTIS</b> 3			Lithium / Calcium	3	120	-20 °C to +120 °C	L-XBCEA 3	K3K-20
<b>MULTIS</b> EP 000	• Grease for centralized lubrication system and enclosed gears.	• Good pumpability. • Long service life thanks to the good resistance of the lubricating film.	Lithium / Calcium	000	150	-30 °C to +100 °C	L-XCBEB 000	GP000G-30
<b>MULTIS</b> EP 00			Lithium / Calcium	00	150	-30 °C to +100 °C	L-XCBEB 00	GP00G-30
<b>MULTIS</b> EP 0			Lithium / Calcium	0	150	-30 °C to +120 °C	L-XCCEB 0	MP0K-30
<b>MULTIS</b> EP 1	• Extreme Pressure, multipurpose grease for a wide range of industrial and automotive applications.	• Enables to rationalize stocks and simplify maintenance operations.	Lithium / Calcium	1	150	-30 °C to +120 °C	L-XBCEB 1	KP1K-30
<b>MULTIS</b> EP 2			Lithium / Calcium	2	150	-25 °C to +120 °C	L-XBCEB 2	KP2K-25
<b>MULTIS</b> EP 3			Lithium / Calcium	3	150	-20 °C to +120 °C	L-XBCEB 3	KP3K-20
<b>LICAL</b> EP 2	• Extreme Pressure, multipurpose grease recommended for most type of industrial applications including heavy-duty applications.	• Good resistance to water. • Enables stock rationalization. • Simplifies maintenance operations.	Lithium / Calcium	2	190	-25 °C to +130 °C	L-XBDHB 2	KP2K-25
<b>MULTIS</b> MS 2	• Extreme Pressure, multipurpose grease for applications under load, shocks and vibration.	• Contains 1% of MoS <sub>2</sub> . • Avoid any jamming or sticking.	Lithium / Calcium	2	150	-25 °C to +130 °C	L-XBCEB 2	MPF2K-25
<b>LICAL</b> MS 2	• Extreme Pressure, multipurpose grease recommended for heavy-duty applications in severe environment (water, dust).	• Contains 3% MoS <sub>2</sub> . • Very good resistance to high loads and shocks. • Very good adhesiveness on metal surfaces.	Lithium / Calcium	2	210	-20 °C to +120 °C	L-XBCHB 2	KPF2K-20

\* Typical kinematic viscosity of base oil at 40 °C in mm<sup>2</sup>/s



BIODEGRADABLE



H1 suitable for incidental food contact

3H suitable for direct food contact

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### MULTIS / LICAL / BIOMULTIS

PRODUCT	APPLICATIONS	SPECIFIC ADVANTAGES	THICKENER	NLGI GRADE	BO VISCOSITY*	OPERATING TEMPERATURE RANGE	SPECIFICATIONS	
							ISO 6743-9	DIN 51502
<b>MULTIS</b> XHV 00	<ul style="list-style-type: none"> <li>• Extreme Pressure, multipurpose grease for applications under load, at low speed and with the risk of water washout.</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional adhesiveness on metal surfaces.</li> <li>• Enables maintenance and shutdown time reduction.</li> </ul>	Lithium / Calcium	00	500	-20 °C to +100 °C	L-XBBHB 00	KP00H-20
<b>MULTIS</b> XHV 2	<ul style="list-style-type: none"> <li>• Extreme Pressure, multipurpose grease for applications under high load, at low speeds with the risk of water washout.</li> <li>• Suitable as "Fifth wheel" grease in transport applications.</li> </ul>		Lithium / Calcium	2	1300	-20 °C to +120 °C	L-XBCHB 2	KP2K-20
<b>MULTIS</b> ZS 000	<ul style="list-style-type: none"> <li>• Synthetic multipurpose grease for centralized lubrication systems when a NLGI 00 or 000 grade is required.</li> <li>• Typically for vehicle chassis, trucks or public works machines.</li> </ul>	<ul style="list-style-type: none"> <li>• Outstanding pumpability even at very low temperature.</li> <li>• MAN - Willy Vogel - MB.</li> </ul>	Lithium / Calcium	00 - 000	42	-45 °C to +120 °C	L-XECFB 00/000	MP00/000K-45
<b>MULTIS</b> XLT 2	<ul style="list-style-type: none"> <li>• Very high-performance synthetic grease for very high speed and/or very low temperature applications.</li> </ul>	<ul style="list-style-type: none"> <li>• Wide operational temperature range.</li> <li>• Reduced power consumption due to low running torque.</li> <li>• Enables to achieve very high speed factor.</li> <li>• Compatible with plastics.</li> </ul>	Lithium / Calcium	2	18	-60 °C to +120 °C	L-XECEA 2	K2K-60
<b>BIOMULTIS</b> EP 2	<ul style="list-style-type: none"> <li>• Biodegradable Extreme Pressure, multipurpose grease for industrial and marine applications requiring environmentally acceptable lubricants (EAL).</li> </ul>	<ul style="list-style-type: none"> <li>• Ultimate biodegradability according to OECD 301-B (&gt; 60%).</li> <li>• EAL Grease complying with EPA 2013 Vessel General Permit (VGP).</li> <li>• Good resistance to water washout.</li> </ul>	Lithium	2	150	-30 °C to +140 °C	L-XCEEB 2	KP2K-30

\* Typical kinematic viscosity of base oil at 40 °C in mm<sup>2</sup>/s



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