

## HYBRID ECOSYNTHETIC® GREASE

**XL-9025** is a unique hybrid 100% synthetic oil based, hydrophobic bearing grease formulated to withstand extremely high static pressures at very low and intermittent RPM.

The blend of synthetic base oils and performance enhancing additives selected to formulate **XL-9025** were chosen for their individual inherent chemical and physical characteristics. Priority attributes were assigned to **endurance**, **non-toxicity**, and **biodegradability** in aqueous environments.

The exceptionally high base oil viscosity index (VI) and low temperature fluidity enables **XL-9025** to provide efficient lubrication over a wide temperature range, -50 °C to +200 °C.

Low and intermittent bearing RPM inhibits the ability of most conventional lubricants (greases) to form a stable lubricating elasto-hydrodynamic (EHD) film. Under heavy loads, rollers will come in contact with the bearing race rings, and scoring will occur upon initial rotation, unless contacting metallic surfaces are protected by an appropriate boundary lubricant.

Unlike conventional lubricants, **XL-9025** has been designed to perform like a "lubricant sponge" releasing a **non-toxic** and **chemically inert** graphite film to be deposited on the contact areas of friction, providing the necessary lubrication to the rollers. Excess graphite will be re-absorbed into the "lubricant sponge" once the roller has passed over the surface.

**XL-9025** is formulated for use in sluice gates, intake gates, and any other application requiring a non-toxic, partially biodegradable, hydrophobic EP grease in high loaded bearings.

TYPICAL SPECIFICATIONS		
Product Code: XL-9025	/102	/202
N.L.G.I. Grade:	2	2
Penetration @ 25°C (ASTM D-217)		
After 60 strokes	268	265
After 10,000 strokes	290	305
Dropping Point (°C) (ASTM D-2265)	None	
Melting Point (°C)	None	
Copper Strip Test (163°C for 3 hours)	Negative	
Texture	Smooth/Tacky	
Colour	Dark Grey	
Type of thickener	Silica	
Oil Separation (72hrs @ -30°C)	< 1%	
Additives	Carbon/Graphite	
Temperature Range (°C)	-50 to 200	
Minimum Dispensing Temperature (°C)	-66	-62
Maximum Intermittent Temperature (°C)	250	250
Base Oil Viscosity (cSt @ -30°C) (ASTM D-445)	39,700	20,300
(cSt @ 0°C) (ASTM D-445)	7,450	3,000
(cSt @ 30°C) (ASTM D-445)	2,100	600
(cSt @ 40°C) (ASTM D-445)	440	105
(cSt @ 100°C) (ASTM D-445)	378	273
Base Oil Viscosity Index	378	273

EcoSynthetic® is a Registered Trademark of Thermal-Lube Inc.



255 avenue Labrosse, Pointe-Claire, Quebec, Canada H9R 1A3  
Tel: 514-694-5823 | 800-567-5823 | Fax: 514-694-8628 | www.thermal-lube.com

