

# THERMAL-LUBE

## HYBRID SYNTHETIC GREASE DGG

# XL0925

July 2022

**XL0925** is a unique 100% hybrid 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 **XL0925** 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 **XL0925** to provide efficient lubrication over a wide range of temperature, from -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 an appropriate boundary lubricant protects contacting metallic surfaces.

Unlike conventional lubricants, **XL0925** 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.

**XL0925** 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: XL0925	/102	/202
N.L.G.I. Grade:	2	2
Penetration @ 25°C (ASTM D217) After 60 strokes After 10,000 strokes	268 290	265 305
Dropping Point (°C) (ASTM D2265)	None	None
Copper Strip Test (163°C for 3 hours)	Negative	Negative
Texture	Smooth/tacky	
Colour	Dark gray	
Type of thickener	Silica	
Oil Separation (24hrs @ 25°C) (ASTM D1742)	< 1%	< 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 D445) (cSt @ 0°C) (ASTM D445) (cSt @ 30°C) (ASTM D445) (cSt @ 40°C) (ASTM D445) (cSt @ 100°C) (ASTM D445)	39,700 7,450 3,000 2,100 440	20,300 3,000 800 600 105
Base Oil Viscosity Index	378	273



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