

# THE THERMAL-LUBE

100% SYNTHETIC HIGH  
TEMPERATURE PAO GREASE  
WITH GRAPHITE

## XL0775

June 2022

**XL0775** is a 100% synthetic graphite-based grease engineered to perform in critical high-temperature applications including ovens, kilns, slide ways etc.

**XL0775** features exceptionally low volatility due to the high molecular-weight olefin polymer base stock. As the ambient temperature increases, this olefin will evaporate slowly leaving a layer of pure highly refined graphite residue on the metallic surfaces thus preventing metal-to-metal contact.

**XL0775** offers:

- Exceptional thermal stability
- Does not melt, does not sink
- Does not carbonize
- Waterproof

**XL0775** can be used in constant temperatures of 400°C / 750°F at which time the base stock will volatilize at an accelerated rate. The graphite residue will withstand temperatures of more than 1200°C / 2200°F with negligible degradation.

**XL0775** is highly thixotropic and is an excellent grease for high load and low rpm bearings. Precautions must be taken not to over-lubricate bearings, and regular inspections must be performed to determine re-lubrication cycles.

**XL0775** is formulated with high polymer base stocks, which result in exceptionally low volatility at higher temperatures, as depicted in the chart below:

72 hrs.....@ 200°C	1%	Volatized
72 hrs.....@ 250°C	4%	Volatized
72 hrs.....@ 300°C	12%	Volatized
72 hrs.....@ 350°C	28%	Volatized
72 hrs.....@ 400°C	70%	Volatized



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# XL0775

TYPICAL SPECIFICATIONS		
Product Code: XL0775	/001	/002
N.L.G.I. Grade:	1	2
Penetration @ 25°C (ASTM D217)	325	260
Après 60 strokes	331	265
Après 10 000 strokes	335	280
Après 60 000 strokes	343	280
Drop point (°C) (ASTM D2265)	None	
Melting Point (°C)	None	
Copper Strip Test (3 heures @ 163°C)	Pass	
Texture	Buttery	Buttery
Colour	Black	
Timken OK Charge (kg) (ASTM D2509)	45+	
Type of Thickener	Inorganic	
Oil Separation (24hrs @ 25°C) (ASTM D1742)	1.5% maximum	
Additives	AW, EP, R&O	
Temperature Range (°C)	-17 à 400	
Minimal Temperature (pumpability) (°C)	-17	
Toxicology	Minimal	
Base Oil Viscosity (cSt @ 40°C) (ASTM D445)	1250	
Classification SIMDUT	Non controlled	



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