

## SUPEOX CL-WB Series

### Synthetic Refrigeration Lubricant for HC systems

#### Introduction

SUPEOX CL-WB series are water soluble polyalkylene glycol based gas compressor lubricants with distinctive additives for use in reciprocating, screw, and rotary compressors for hydrocarbon process gas chillers in Refrigeration Lubrication application. Unlike mineral oils, PAOs, and R&O oils, CL-WB lubricants are not easily absorbed into the gas stream and therefore lubricant viscosity dilution is significantly minimized. SUPEOX CL-WB lubricants are particularly suitable for use with propane, propene, and butane/isobutane chiller systems. The high resistance to gas dilution of the lubricant ensures proper lubricant viscosity is maintained, thereby ensuring adequate oil film thickness and efficient compressor lubrication. SUPEOX CL-WB lubricants are a precise synthesis of premium PAG base oil and sophisticated additives to ensure long service life, excellent wear protection, and high thermal and oxidation resistance. They are available in three viscosity grades ISO VG 68, 100, 150 and 220 to meet the design requirements of reciprocating and screw compressors.

#### Advantages

- ◆ Optimized viscometrics for hydrocarbon refrigerants such as R290 (propane) and R600 (butane)
- ◆ Exceptional Viscosity Index (VI) – The high VI enhances compressor life by ensuring efficient running at temperature extremes. The high VI may also allow the user to select a lower viscosity fluid than typically used, with associated power usage savings.
- ◆ Good high temperature and chemical stability
- ◆ Formulating expertise – optimised additive technology to provide corrosion protection within the system, to further enhance the extreme pressure / antiwear performance of the PAG, and to maximise fluid lifetime by ensuring against thermal or oxidative deterioration of the lubricant.

#### Physical Properties

Characteristic	Test Method	Unit	CL-WB 68	CL-WB 100	CL-WB 150	CL-WB 220
Viscosity (40°C)	ASTM D445	cSt	68	100	150	220
Viscosity (100°C)	ASTM D445	cSt	14	19	28	41
Viscosity Index	ASTM D2270		215	217	225	240
Flash Point (COC)	ASTM D92	°C	220	230	240	240
Specific Gravity @ 25°C	ASTM D1298	g/cc	1.04	1.05	1.05	1.06
Pour point neat lub <sup>1</sup>	ASTM D97	°C	-55	-50	-48	-42

<sup>1</sup> pour point with coexisting gas in a running system is lower

**Note:** Typical properties given do not constitute a supply specification