



**Mastercool**<sup>®</sup> Inc.  
"World Class Quality"

## **ZEROL HD46** R1234yf MOBILE AIR CONDITIONING COMPRESSOR LUBRICANT



### **SPECIFICATIONS:**

- Viscosity @ 40°C (cSt):  
42.0 – 48.0
- Colour (Gardner):  
1 max.
- Water content (ppm):  
300 max.
- Total Acid Value (mgKOH/g):  
0.03 max.
- Pour point (°C):  
<-25
- Capping Efficiency:  
85.0% minimum
- Appearance:  
Clear to slightly hazy, free of visible particles

ZEROL HD46 is a fully formulated ISO VG46 grade polyalkylene glycol lubricant designed specifically for application with HFO refrigerant R1234yf in mobile air conditioning (MAC) systems. The product is a double end-capped PAG, and is manufactured to exacting standards of high double end-capping efficiency. ZEROL HD46 is suitable for use in both belt and electrically driven compressors utilizing R1234yf, and is also fully suitable for use in R134a belt-driven and electric MAC compressors.

- Optimized miscibility in HFO refrigerant R1234yf.
- Superior lubricity compared to alternative lubricant types, including standard 'single end-capped' PAG products, and di-capped PAGs with lower di-capped material content.
- 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, even in presence of water, resulting in system lifetime extension and reduced maintenance costs.
- Low hygroscopicity (tendency to absorb moisture) compared to alternative PAG products with lower di-capping content.
- Formulating expertise – ZEROL HD46 series contain optimized additive technology to provide additional corrosion protection within the a/c system, to further enhance the extreme pressure and anti-wear performance of the PAG, and to maximize fluid lifetime by ensuring against thermal or oxidative deterioration of the lubricant.
- Excellent electrical resistivity properties for electrically driven systems.

**92709-YF-8:** 8 fl. oz (236 ml) bottle

**92709-YF-32:** 32 fl. oz (946 ml) bottle