



MOBIL ZERICE S SERIES

DESCRIPTION

Mobil Zerice S Oils are premium quality synthetic refrigeration compressor lubricants. Based on alkyl benzenes, which due to their nature, have superior miscibility with hydrochlorofluorocarbon (R22), as well as chlorofluorocarbon refrigerants (R 502 and R 12: possibly used on some old refrigerating plants). This allows them to be used in very low temperature applications, down to -60C.

PROPERTIES & BENEFITS

Relative to mineral and other synthetic lubricants, Mobil Zerice S has superior solubility with halocarbon refrigerants. This helps avoid the common problem of oil separation and congealing on the valve and heat transfer surfaces of the refrigeration system.

Additionally, Mobil Zerice S lubricants have very low pour and floc points which helps prevent harmful wax precipitation that can block expansion valves and heat transfer surfaces.

Mobil Zerice S lubricant's synthetic nature provides excellent chemical stability and resists reaction with refrigerants and high thermal stability which helps prevent oil breakdown.

Properties	Potential advantages and benefits
Miscibility with halocarbon refrigerants.	Increased system efficiency.
Low pour and floc points.	Avoids wax precipitation and increased system efficiency.
Chemical stability.	Long oil service life.

APPLICATIONS

Mobil Zerice S lubricants are recommended for all refrigeration compressor types, reciprocating or rotary screw types. They are well suited for use with fluorocarbon refrigerants. They should not be used with sulfur dioxide or R134A refrigerants. The specific viscosity grade should be selected in accordance with the compressor manufacturer's recommendations.

TYPICAL CHARACTERISTICS

MOBIL ZERICE S SERIES	68	100
Viscosity, ASTM D 445		
cSt @ 40°C	68	100
cSt @ 100°C	6.5	8.0
Pour Point, °C, ASTM D 97	-27	-27
Flash Point, °C, ASTM D 92	174	186
Floc Point, R12, °C	-60	-60
Acid Number, mg/KOH, max., ASTM D 974	.05	.05
Copper Corrosion 3 h, @ 100°C, ASTM D 130	1	1
Water Content, ppm, ASTM D 1533	<50	<30

HEALTH & SAFETY

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS).

The typical property values shown in the table are average figures given as a guide. They do not constitute a guarantee. Values may be modified without notice.