



Mobil Zerice S Series

Refrigeration Compressor Lubricants

Product 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.

Features, Advantages and 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.

Features	Advantages and Potential 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 Properties

Mobil Zerice S	15	32	46	68	100
Viscosity, ASTM D 445					
cSt @ 40°C	15	32	46	68	100
cSt @ 100°C	3.0	4.2	5.4	6.5	8.0
Pour Point, °C, ASTM D 97	-39	-33	-30	-27	-27
Flash Point, °C, ASTM D 92	140	154	154	174	186
Floc Point, R12, °C	-60	-60	-60	-60	-60
Acid Number, mg/KOH, max., ASTM D 974	.05	.05	.05	.05	.05
Copper Corrosion 3 h, at 100 °C, ASTM D 130	1	1	1	1	1
Water Content, ppm, ASTM D 1533	<30	<30	<30	<50	<30

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its

intended use. If disposing of used product, take care to protect the environment.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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