Performance by ExxonMobil

Mobil Zerice™ S Series

High-performance refrigeration compressor oils

Energy lives here™

Product features

Mobil Zerice™ S Series oils are premium-quality synthetic compressor lubricants designed for use in refrigeration and air conditioning applications with both reciprocating and rotary compressors. They can provide:

- **Compatibility with low-temperature applications**
- **Excellent miscibility with hydrochlorofluorocarbon**
- **Chemical and thermal stability**

Mobil Zerice S Series oils can be used in very low-temperature applications, down to

−60°C

Potential benefits

Mobil Zerice S Series oils can offer:

1. Minimised downtime and maintenance costs
2. Reduced oil waste and disposal costs
3. Long oil service life
4. Optimised system efficiency

Suited for low-temperature applications

Based on alkyl benzenes, Mobil Zerice S Series oils have superior miscibility with hydrochlorofluorocarbon (R22), making them well-suited for low-temperature applications, down to -60°C. In certain situations they can also be used in compressors where the refrigerant is ammonia.

Applications	
Suitable for all refrigeration compressor types	✓
Recommended in units using hydrochlorofluorocarbon and selected ammonia refrigerants	✓

Do not use in applications using sulphur dioxide or R134A lubricants.

Mobil Zerice™ S Series

Excellent chemical and thermal stability

Mobil Zerice™ S Series lubricants' synthetic nature provides excellent chemical and thermal stability, allowing them to resist reactions with refrigerants, as well as helping prevent oil breakdown.

Increased system efficiency

The oils (Mobil Zerice™ S 32, Mobil Zerice™ S 46, Mobil Zerice™ S 68 and Mobil Zerice™ S 100) have superior solubility when used with halocarbon refrigerants compared with mineral lubricants.

As the result of their low pour and floc points, they can help avoid the issue of oil separation and congealing on valve and heat transfer surfaces. This in turn increases system efficiency.

Typical properties*

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

*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 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.