

# Product Data Sheet

## Servofriz Series

Refrigeration Compressor Oils



### Description

Servofriz oils are high quality mineral lubricants formulated for the lubrication of reciprocating and rotary refrigeration compressors. These oils possess inherent resistance to oxidation and deposit formation.

### Performance, Features and Benefits

- Possess high fluidity at very low temperatures
- Resist deposit formation thereby keeping compressor parts clean
- Reduce compressor valve maintenance due to less deposits
- Ensure high condenser efficiency
- Have long service life due to high oxidation and thermal stability
- Have reduced tendency to foam
- Minimise copper plating due to their resistance to interact with metals in the system

### Application

Servofriz oils are recommended for the lubrication of a wide range of refrigeration compressors. These oils can be used with conventional refrigerants, except sulphur di-oxide, in both reciprocating and rotary compressors.

They are also suitable for use in properly designed and well maintained refrigeration systems, where evaporator temperatures are lower than the pour point of the oil.

### Approvals / Performance Standards / Recommendations

Servofriz oils meet the following specification:

- IS : 4578-1989

Servofriz 68 meets Carrier Corporation, USA specification No. PP 46-1

Servofriz oils are approved by the leading refrigeration compressor manufactures, such as:

- Bharat Heavy Electricals Ltd., Hyderabad
- Bharat Pumps and Compressors Ltd., Naini
- Frick India Ltd., Faridabad

### Typical Physical Characteristics

Servofriz	Method	Value					
ISO VG		12	22	32	46	68	100
Density @ 15° C, gm/ml	D:1298	0.8606	0.8680	0.8710	0.880	0.890	0.915
Flash Point (COC), °C	D: 92	157	171	178	182	189	220
Kinematic Viscosity @40°C, cSt	D:445	13.0	21.0	31.1	46.5	68.0	95
Pour Point, °C	D: 97	<(-) 45	<(-) 45	<(-) 39	<(-) 33	<(-) 30	<(-) 24
TAN, mg KOH/gm	D:974	0.02	0.02	0.02	0.02	0.02	0.02
Copper strip Corrosion @ 100°C, 3 hrs	D130	1	1	1	1	1	1

### Health, Safety & Environment

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 at <https://cx.indianoil.in/>. 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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