

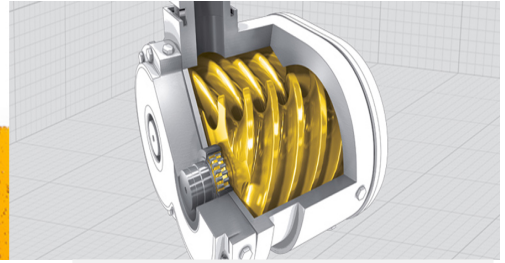
# QStar

## Refrigeration Compressor Oil



## Product Data Sheet

Revision 07/10/21 superseding issue of 21/09/21



**QStar Refrigeration Compressor Oil Series** is a range of special refrigeration compressor oils, using highly refined base stocks with low carbon forming tendencies and good water separation properties. In hot applications, they may form small amount of soft, fluffy carbon, while the conventional paraffinic-based lubricants form larger amount of harder carbon. These oils have inherent low temperature characteristics and do not contain any pour point depressant additives that have been known to impair the performance of certain refrigerator systems.

**QStar Refrigeration Compressor Oil Series** exhibits very high thermal stability and good chemical stability with many commonly used refrigerants. They are non-reactive with typically encountered compounds in a refrigeration system. The products are available in a wide range of viscosity grades, of which the ISO VG 32, ISO VG 46 and ISO VG 68 are the most commonly used to meet the needs of residential and industrial refrigeration systems. These products are not recommended for use in breathing air compressors.

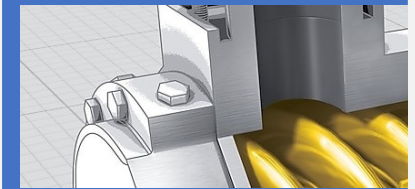
## PERFORMANCE STANDARDS

- Meets British Standards BS 2626: 1992

## FEATURES

- Low wax forming tendency for good low temperature performance.
- Superior solubility characteristics with many refrigerants.
- Excellent compatibility with materials in the refrigeration systems.
- Minimise degradation and sludge formation associated with conventional mineral oils.
- Prevent fouling of heat transfer surfaces and the plugging of evaporators, expansion valves.
- Excellent thermal and chemical stability for long service life.
- Superb lubricity to protect against wear of compressor parts.

Typical values do not constitute as specifications. Due to continual product research and development, the information contained herein is subjected to change without notification



## APPLICATIONS

- **QStar Refrigeration Compressor oils** are intended for use in compression refrigeration systems (mainly the open and semi-seal types) containing non-hydrofluorocarbon refrigerants (CFC and HCFC) such as R11, R12, R22, R123 and R500. Due to different refrigerant miscibility characteristics, these products are not recommended for use with HFC refrigerants such as R134a.
- Suitable for ammonia (R717) refrigeration systems and also when hydrocarbon (eg. R600a) is the refrigerant, where the operating conditions are moderate and an economical oil is desired.
- May also be used in other applications where abnormally low ambient temperatures are encountered.

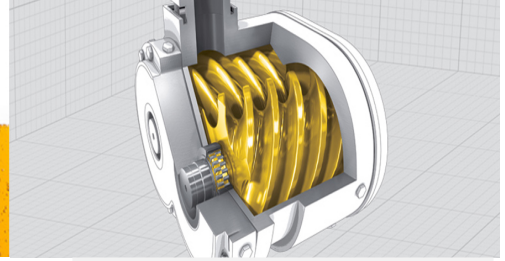
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### TYPICAL PROPERTIES

ISO Grade	15	32	46	68	100
Density, kg/litre @15°C	0.885	0.888	0.890	0.892	0.901
Colour ASTM	< 0.5	<0.5	0.5	<1.5	2.0
Kinematic Viscosity, mm <sup>2</sup> /s @40°C	15.0	31.6	45.5	69.1	100.3
Kinematic Viscosity, mm <sup>2</sup> /s @100°C	3.1	4.7	5.7	7.3	9.0
Viscosity Index	38	37	41	47	44
Pour Point, °C	-48	-42	-39	-33	-30
Flash Point COC, °C	152	168	186	198	210
Copper Corrosion	1a	1a	1a	1a	1a
Emulsion Characteristics, (min. to 40-40-0)	5	5	5	5	10

### HANDLING PRECAUTIONS

When handling this product, a maximum temperature of 60°C should be observed for storage, loading and unloading. For long-term storage, it is strongly recommended that the temperature should not be lower than 10°C or above 40°C.

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