

Sabroe oils



Special oils developed for refrigeration systems

The oil used is one of the key items in determining the efficiency, reliability and service life of a refrigeration compressor.

There are many special requirements for the oils used in refrigeration compressors.

- They must be pure, clean base oils without additives, because any such additives can react with the refrigerant.
- They must be straight-cut and not blended. Blended oils tend to separate, which affects the viscosity and efficiency of the compressor oil.
- They are very sensitive to any water content, but must not use additives (emulsifiers) to deal with such water.

Many different types of mineral oil are available, but they usually have considerable drawbacks.

- Few have been field-tested under the demanding operating conditions encountered in modern refrigeration systems.
- Many mineral oils are blends of different viscosities. These can separate under even normal operating conditions.
- The quality of the crude oils from which the base stocks for mineral oils are produced often varies considerably.
- Operating problems involving unstable viscosity, black sludge, etc., are increasingly common, especially in ammonia plants.

The wide variety of base stocks used for producing mineral oils means that they often lack the necessary chemical stability and can often begin to fail after only a brief operating period.

Significant advantages

- Extended operating hours between oil changes.
- Manufactured as “straight-cut” oils.
- Better stability and viscosity indices.
- More cost-effective.

Customer benefits

- • Longer service life than typical mineral oils (up to five times longer).
- • Extremely stable in operation.
- • Ensures lower oil consumption, optimum lubrication and extended service life for the compressor. Avoids alterations in viscosity due to separation of blended oil.
- • Provides savings on top-ups, oil filter changes, waste disposal costs and labour costs.



Peace of mind

The Sabroe decision to supply its own brand of oil is based on a determination to provide both installers and users of Sabroe equipment with the best possible level of support for their compressor operations.

To make sure that users of Sabroe compressors have access to oil of a suitably high quality, we provide a range of special synthetic oils that help avoid the problems normally associated with mineral oils. All Sabroe refrigeration oils have been thoroughly tested, and guarantees are available.

Chemically stable

Sabroe oils are so-called synthetic oils. This means they are produced using stringent refining standards that ensure identical specifications for every batch, as well as ensuring excellent chemical stability.

These production methods, and the resultant chemical stability, are also the reason why we are able to provide clear-cut, unequivocal guarantees for the quality and performance of Sabroe refrigerant oils.

Sabroe refrigerant oil guarantees

Sabroe guarantees that our refrigerant oils

- are not “blended” from different viscosities
- contain absolutely no additives
- are fully tested for use with Sabroe compressor equipment
- bear a Sabroe full warranty should there arise any unforeseen operating problems due to the oil.

Compressor warranties with other types of oil

In terms of warranty obligations and commitments, Sabroe accepts the use of other brands of oil in Sabroe compressors, providing they meet the specifications for the application concerned and are suitable for the refrigerant used. The normal equipment warranty is unaffected by the use of such oils.

However, if any oil-related problems arise, these must be dealt with – both technically and financially – by the supplier of the oil in question.

Oil type	Application	Quantity	Part No
Sabroe PAO68	New R717 plants	20 l pail	1231-256
		208 l drum	1231-259
Sabroe AP68	R717 plants formerly charged with mineral oil	20 l pail	1231-257
		208 l drum	1231-260
Sabroe A100	R22 plants	20 l pail	1231-263
		208 l drum	1231-262

All information is subject to change without previous notice.

