

## TECHNICAL DATA SHEET

## MEEK COMP REF SYN

### PRODUCT DESCRIPTION

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

The refrigeration oil **MEEK COMP REF SYN** series based on synthetic polyol ester that were especially developed for use with chlorine-free, fluorinated hydrocarbons. **MEEK COMP REF SYN** refrigeration oil is miscible and compatible with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

### APPLICATIONS

The **MEEK COMP REF SYN** is outstandingly suited for all refrigeration circuits, in which chlorine free HFC/FC refrigerants, e.g., R134a, R404A or R410A are used. **MEEK COMP REF SYN** refrigeration oil is also suitable for HFO and HFO/HFC refrigerants. Depending on the viscosity the refrigeration oil is recommended for hermetical, semi-hermetical and open piston compressors and for screw-type compressor (for low temperature applications) and turbo-compressors. **MEEK COMP REF SYN** is especially suitable for deep-freeze systems operating with R23. **MEEK COMP REF SYN** product is also suitable for hydrocarbon refrigerants (e.g. propane, polypropylene, isobutane) and R22.

### ADVANTAGES

- Special synthetic polyol ester
- Stable lubrication film even at high temperatures, outstanding lubricity
- Excellent miscibility with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends
- Very high thermal and chemical stability in the presence of fluorinated refrigerants
- Good viscosity-temperature behavior
- Excellent cold temperature flowability
- Secure oil return from the system, good heat transfer
- Good compatibility with elastomers and materials normally used in refrigeration circuits
- Readily biodegradable
- Approved by leading compressor manufacturers
- Ultra-dried

### TYPICAL PROPERTIES

ISO VG		32	55	68	100
Density@15°C, g/ml	ASTM D 4052	1,004	1,009	0,972	0,970
Viscosity@40°C, mm <sup>2</sup> /s	ASTM D 445	32,0	55,0	68,0	100,0
Viscosity@100°C, mm <sup>2</sup> /s	ASTM D 445	6,1	8,8	8,9	11,4
Viscosity Index	ASTM D 2270	141	137	104	100
Flash Point, °C	ASTM D 92	250	286	258	266
Pour Point,	ASTM D 97	-57	-48	-39	-30



## HEALTH AND SAFETY RECOMMENDATIONS

Waste oils must not be discharged into underground or surface water sources, sewage systems or garbage cans. Prolonged or repeated contact with used oils may cause skin diseases. Therefore sterilized gloves should always be used. If part of the skin comes into contact with waste oil, that part should be immediately washed with plenty of soap and water. In case of skin irritation or redness caused by contact, seek advice of your doctor immediately. For more information contact Material Safety Data Sheet (MSDS).

The vehicle and equipment manufacturers specifications and relevant international standards were taken into consideration while preparing the content of this Technical Data Sheet. The expressions in the content of this Technical Data Sheet can not be considered as guarantee commitment or similar way in terms of product characteristics and product use in any applications.

The correct use of this product, compliance with applicable laws and regulations is responsibility of the user. Mineral Energies Petrol A.Ş. can not be held responsible for any loss or damage arising from the abnormal use and misuse or any hazards of product content and its results.

This Technical Data Sheet is valid from the date of publication. The information in the content of this Technical Data Sheet are subject to change without notice. Please contact with Mineral Technical Department for more information.

