



Alpha Synthetic Refrigeration Oil Series

TECHNICAL SPECIFICATIONS

Product Description

Alpha synthetic refrigeration oil Series are high performance environmental awareness lubricants with poly-ester additives designed specifically for the lubrication of refrigeration compressors and systems, using ozone-friendly HFC refrigerants. (HFCs are chlorine-free products replacing chlorine-containing refrigerants in the world market). They are also recommended for carbon dioxide applications, with appropriate miscibility for proper oil return to compressor (typically piston type applications). Provide outstanding lubricity, wear protection, chemical and thermal stability, and hydrolytic stability. They are miscible with HFC refrigerants and have well-defined viscosity/temperature/pressure relationships with a wide range of HFCs.

Applications

Alpha refrigeration lubricants are recognised and appreciated around the world for their compatibility with the environment and their excellent performance. Products were designed by our research scientists to suit for all refrigeration circuits, the new generation of ozone-friendly refrigerants mandated by the Montreal Protocol and succeeding world-wide agreements. Depending on the viscosity the refrigeration oil is recommended for hermetical, semi-hermetical and open piston compressors and for screw-type and turbo-compressors. Development of these products symbolises our continuing commitment to use advanced technology to provide outstanding lubricant products.

Specifications

REFRIGERATION OILS	TEST METHODS	32	55	68	100	170	220
Density @ 15°C Kg/m ³	ASTM D4053	1005	1009	970	970	968	975
Flash point °C	ASTM D 92	250	282	260	265	279	285
Pour point °C	ASTM D97	-55	-45	-40	-34	-27	-28
KIN.Viscosity @40c	ASTM D7042	32	55	68.0	100	170	220
KIN.Viscosity @100c	ASTM D7042	6.0	8.8	8.7	11.5	17	19
Viscosity index	ASTM D2270	140	136	104	99	91	88
Total acid number mgKOH/g	TAN	0.03	0.03	0.03	0.03	0.05	0.03

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at : www.alphaenergy.com.eg