



TECHNICAL DATA SHEET

FRIGOSPEC OILS

FRIGOSPEC OILS are premium quality oils expressly designed for use as refrigeration compressor lubricants. They are fully compatible with all types of refrigerant gases, are wax free and are highly stable, thus insuring a long, trouble free life. FRIGOSPEC OILS have a long history of satisfactory service in many types of equipment and are approved by most manufacturers for both factory and maintenance fill of their equipment. The oils are readily available in two viscosity grades to satisfy every requirement.

APPLICATIONS

FRIGOSPEC OILS can be used in virtually any installation regardless of the compressor evaporator temperatures. They are ideally suited for low temperature systems where evaporator temperatures are below -18°C, including residential and commercial refrigeration and air-conditioning systems.

ADVANTAGES

FRIGOSPEC OILS offer the user the following advantages:

1. Chemical and thermal stability to extend service life, reducing service calls and maintenance costs.
2. Cleaner operation of the compressor with fewer deposits and failures due to valve sticking.
3. Excellent low temperature performance, with no wax deposits to clog the system.
4. High dielectric strength to insure good insulating properties
5. Approval by most major equipment manufacturers.

This product is approved for use in food manufacturing plant by the Canadian Food Inspection Agency.

TYPICAL PROPERTIES OF FRIGOSPEC OILS

PROPERTY	ASTM TEST	GRADE		
		32	68	100
Product code	-	6089	6090	6272
Viscosity in cSt at 40 °C	D445	29,6	63,8	101,0
Viscosity in cSt at 100 °C	D445	4,3	6,7	8,7
Viscosity in SUS at 100 °F	D2161	154	337	542
Viscosity in SUS at 210 °F	D2161	41,0	49,0	55,7
Density in kg/dm ³ at 15 °C	D1298	0,904	0,909	0,910
Flash Point in °C	D92	174	187	198
Pour Point in °C	D97	-45	-37	-21
Color	D1500	0,5	0,5	3,0
Floc Point in °C	ASHRAE	-54	-48	-37
Dielectric strength in kV	D877	35+	35+	35+
Aniline Point in °C	D611	81	88	84
Sealed tube, % R-22 : 14 days	-	0,20	0,30	----

NOTE: Do not store in food processing or food storage areas. Avoid contamination of food in the application and storage of the oil.

REMARK: Although the preceding values are typical properties, they do not represent guaranteed characteristics.

FRIGOSPEC SELECTION CHART*

SERVICE CONDITIONS	REFRIGERANT TYPE	GRADE		
		32	68	100**
COMPRESSOR TEMPERATURE:				
- Normal	All types	✓	✓	
- High (up to 93°C)	Fluorocarbon	✓	✓	✓
	Hydrocarbon	✓	✓	✓
	Ammonia	✓	✓	✓
- In excess of 93°C	Ammonia ***			
EVAPORATOR TEMPERATURE:				
- Above -18°C (0°F)	fluorocarbon	✓	✓	
	ammonia	✓	✓	✓
- From -18°C to -40°C (0°F to -40°F)	fluorocarbon	✓	✓	
	ammonia	✓	✓	
- Below -40°C (-40°F)	fluorocarbon	✓		
	hydrocarbon	✓		
	ammonia	✓		

* Always use the viscosity grade recommended by the manufacturer.

** Where oil is prevented from entering the system and the cylinders.

*** See **FRIGOSPEC 2000** oils.