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# Product Data Sheet



**NOTE:** The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

## REFRIGERATION COMPRESSOR

### RTC SERIES

*Summit RTC Series* lubricants are designed exclusively for semi-hermetic (piston) compressors requiring a POE-type lubricant for improved miscibility with the refrigerant and improved oil return to the compressor. Semi-hermetic compressors are used in many supermarket applications and commercial (mobile) refrigerated trailer/truck applications. **Summit RTC Series** is available in five viscosity grades for HCFC & HFC refrigerant gases like MO99, R22, R134a, R401a, R401b, R402a, R402b, R404a, R407a, R407c, R408a, R409a, R410a, R422a/d, R502, & R507c. **Summit RTC Series** employs a unique base fluid that provides optimum refrigerant solubility/miscibility. Other benefits of **Summit RTC Series** vs traditional POEs for refrigeration include:

- 50% less hygroscopic
- Less compressor component wear
- Less issues with copper plating
- Greater cooling efficiency
- Reduced oil carryover

*Mixing Summit RTC Series with other POE-based formulations should be avoided. There is no need to flush when converting to Summit RTC Series from other POE-based formulations. Always consult the Summit engineers before using this product in other refrigeration applications.*

### Physical Properties

PRODUCTS	RTC-32	RTC-46	RTC-68	RTC-100	RTC-120
ISO Grade	32	46	68	100	120
Viscosity					
@ 40°C, cSt	32.2	51.6	63.2	96.06	122.11
@ 100°C, cSt	5.61	8.01	9.28	12.83	15.18
Viscosity Index	113	124	126	130	129
Specific Gravity, 60°F	0.899	0.921	0.920	0.926	0.927
Flash Point, °F (°C)	495(257)	500(260)	490(254)	510(266)	515(268)
Pour Point, °F (°C)	-71(-57)	-49(-45)	-49(-45)	-51(-46)	-47(-44)
Rust	Pass	Pass	Pass	Pass	Pass
Emulsion Tendency	40/40/0 (10 mins.)	40/40/0 (20 mins.)	40/40/0 (20 mins.)	40/40/0 (20 mins.)	40/40/0 (20 mins.)
TAN	0.34	0.28	0.28	0.28	0.28

**Shelf Life:** Product shelf life is 5 years from the date of manufacture, after which the product should be recertified prior to use.