



Refrigeration Lubricants

Product Information Guide



Quality Solutions for Evolving Challenges

Since our formation in 1982, Summit has sought to provide quality lubricant products with a customer-centered approach. More than 35 years later, Summit remains at the leading edge of product development offering quality solutions to meet evolving industry challenges.

As code and regulatory changes continue to reshape the refrigeration industry, businesses are challenged to rethink what goes into their systems. Evolutions in equipment and system design demand high quality lubricants to maximize product life and operational efficiency. Additional phase outs of once prominent refrigerants require alternative lubricant solutions to meet the challenges of replacement refrigerants.

Summit's growing portfolio of refrigeration compressor lubricants answers these challenges and offers the assurance of product solutions for any application.

In addition to offering quality products, we wish to create a partnership with our customers. Our knowledgeable staff are adept at pairing proper product solutions and our global network ensures a timely response regardless of location. We wish to welcome you to the Summit family and look forward to serving you.



Paige Holder

Market Manager
Industrial Refrigeration

Support You **Can Rely On**

At Summit we take pride in offering superior customer support. We understand the costly implications of compressor downtime and remain dedicated to providing quick solutions for every need. From product development to customer service, our experts are ready to serve you.

Quick Ship **Within 48 Hours**

Ensures our customers receive products when they need them.

Our Free **Oil Analysis Program**

Provides on-time assessment and recommendations to extend the life of your lubricant and compressor.

To get the right lubricant into the right application requires experience and expertise.

Summit has both.

Q: **What sets Summit apart?**

We're looking to do much more than just sell lubricants. We pride ourselves in being expert problem solvers. At Summit, we know that our success hinges directly on your success, and that knowledge drives the way we do business. In everything we do -- from product development, to hiring, to plant visits, phone calls, technical support, oil analysis, training seminars and everything in between -- we are looking to answer the question: "Does this help us to better serve our customers?" We want to be a full-service lubrication resource for your business.



Products and expertise to solve every application need

Long Term **Lubricant Solutions**

At Summit we offer a full range of products that exhibit key properties essential to extending the life of your equipment and reducing the total cost of ownership.

1 Stable Viscosity

Highly stable products provide maximum lubricant life with extended drain times, prevent viscosity creep and contribute to higher long-term volumetric efficiency.

2 Thermal Stability

A high viscosity index offers greater resistance to viscosity variation across extreme temperature ranges to ensure proper flow at low temperatures and wear protection at high temperatures.

3 Chemical Stability

Highly chemically stable lubricants resist degradation and the detrimental formation of corrosive acids and sludge in the presence of moisture, air and other contaminants.

4 Solubility

Minimizing refrigerant-lubricant solubility reduces oil carryover and wear associated with refrigerant-diluted viscosity reduction.

5 Miscibility

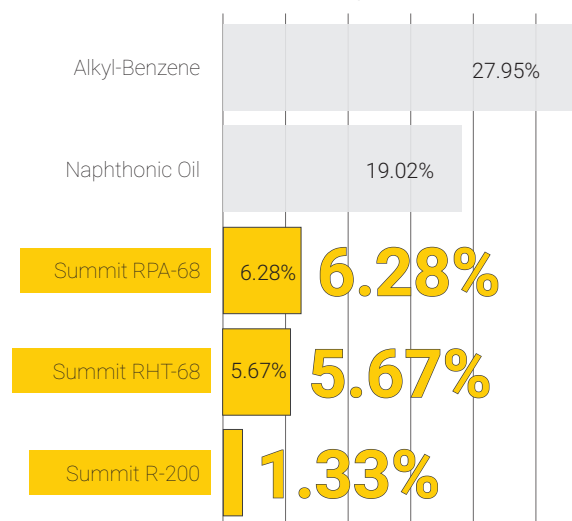
Proper refrigerant-lubricant miscibility ensures efficient oil return management for maximum operational efficiencies and system cleanliness.

6 Foaming

A quality lubricant will allow for proper dissipation of foaming to reduce carryover and pump cavitation concerns.



Oil Evaporation Comparison



Test Report #08070212 dated August 1, 2008

Quality Solutions for Every Refrigerant Application

→ Natural Refrigerants

→ Hydrocarbons

→ HCFC Refrigerants

→ HFC Refrigerants

→ HFO Refrigerants

Formulated **for Success**

From concept to solution, our products undergo rigorous quality control testing at our ISO 9001 manufacturing facility to ensure consistent quality.

Let us prove it to you

Summit wants to be your specialty lubrication partner the world over. We believe that specialty lubricants are an integral part of the design of refrigeration compressors and pay for themselves. Let us prove it to you.



**Quality.
Service.
Expertise.**

Refrigeration Compressor **Lubricants**

RHT Series

Highly refined, hydrotreated petroleum based lubricant. Exhibits superior chemical and thermal stability and offers extended drain intervals making in the clear solution for most ammonia refrigerant applications. NSF H2 Registered.

RHT FG-68

Food Grade NSF H1-certified version of the Summit RHT Series.

R Series

Full synthetic, PAO based Food Grade NSF H1-certified lubricant. This high Viscosity Index product is designed for use in both ammonia and CO2. An ideal solution for Ammonia/CO2 cascade systems.

RAB-68

Full synthetic, Alkylate based lubricant. Offers extreme stability at high temperatures and excellent low temperature properties for both low temp ammonia and HCFC refrigerant systems. NSF H2 Registered

RHB Series

Semi-synthetic, Alkylbenzene blend designed for ammonia and HCFC refrigerant applications. NSF H2 Registered.

RPA-68

Full synthetic, PAO/Alkylbenzene blend designed for ammonia and HCFC refrigerant systems. NSF H2 Registered

RPE Series

Full synthetic, POE based lubricant specifically designed for HFC refrigerant applications.

RPE-744 Series

Full synthetic, POE based lubricant specifically designed for CO2 applications.

RPS Series

Full synthetic, PAG based Food Grade NSF H1-certified lubricant. Provides optimum miscibility with ammonia for easy oil return in direct expansion (DX) Ammonia applications.

RTC Series

Full synthetic, PAO/POE blend specifically designed for semi-hermetic compressors with HCFC or HFC refrigerant applications.

PSO-M & PSO-LT

PSO oils are developed for ammonia pump seal applications. PSO-M is a highly refined, hydrotreated petroleum based oil. PSO-LT is a full synthetic, PAO based Food Grade NSF H1-certified oil.

Certified Quality.

We don't just claim quality products, we have the certifications to back it up. Our production facilities are ISO 9001 certified for quality, ISO 14001 certified for environmental protection, and ISO 21469 certified, the most stringent certification for food grade lubricant production.



Quality. Service. Expertise.



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