

## HALALUBE® R1A 68

### H1 Food Grade Synthetic Refrigeration Compressor Oil

**Halalube® R1A 68** is an ISO VG 68 high performance compressor lubricant based on a poly-alpha-olefins PAO-based ammonia refrigeration fluid engineered for exceptional performance in demanding conditions. It is formulated using the latest available additive technology providing outstanding resistance to oxidation and thermal degradation required in rotary screw and piston reciprocating compressors in food & beverage processing, edible oil, feeds, paper, pharmaceutical, personal care and food packaging industries.

**Halalube® R1A 68** meets the requirements of FDA 21 CFR 178.3570 and is H1-registered for processes where incidental food contact can occur. **Halalube® H1**-lubricants do not contain ingredients of animal origin or genetically modified products and are HALAL certified.

**APPLICATIONS:** Halalube® R1A 68 is recommended for:

- Rotary screw and Piston compressors
- Ammonia refrigeration compressor application

**SERVICE TEMPERATURE RANGE:**

below -45°C

H1 registration Number: #BJ1223810



ISA is a member of World Halal Food Council (WHFC)

**BENEFITS:** Halalube® R1A 68 possesses the following benefits over other mineral oils:

- ✓ **Advanced Additive System:** Developed for optimal performance in aggressive ammonia environments, including a seal conditioning additive to prevent leakage in older systems.
- ✓ **Superior Thermal and Hydrolytic Stability:** Enables extended drain intervals, reducing maintenance costs and downtime.
- ✓ **Excellent Low-Temperature Performance:** Stable viscosity and low pour point ensure reliable operation in extreme temperature conditions.
- ✓ **Minimal Foaming:** Promotes efficient system operation and reduces energy consumption.

| TYPICAL PROPERTIES:    | Value                | Method      |
|------------------------|----------------------|-------------|
| Appearance             | Clear, yellow liquid | Visual      |
| Viscosity @ 40°C, cSt  | 65.8                 | ASTM D-445  |
| Viscosity @ 100°C, cSt | 10.3                 | ASTM D-445  |
| VI                     | 143                  | ASTM D-2270 |
| Density @ 15.6°C, kg/l | 0.836                | ASTM D-1298 |
| Flash point (COC), °C  | 263                  | ASTM D-92   |
| Pour point, °C         | -54                  | ASTM D-97   |
| Copper corrosion       | 1a                   | ASTM D-130  |
| Steel corrosion        | pass                 | ASTM D-665B |
| Moisture Content, ppm  | <50                  | ASTM D-1744 |
| Demulsibility, <5 mins | 40/40/0              | ASTM D-1401 |

**COMPATIBILITY:** Halalube® R1A 68 is based on synthetic hydrocarbons and has characteristics very similar to mineral oils regarding to its compatibility with seals, gaskets, hoses and paints. There are no special requirements when replacing mineral oil or other PAO-based lubricants. Flushing is recommended to remove remaining residues.

**PACKING:** 20l & 208l

For further information on other applications, please contact our technical team.

[www.HALALUBE.my](http://www.HALALUBE.my)

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The #1 Choice of H1 Registered, Halal & Kosher Certified Food Grade Lubricant