

The Atlas Copco logo is positioned in the top right corner of the page. It consists of the brand name "Atlas Copco" in a white, italicized serif font, centered between two horizontal white bars. The background of the entire page is a photograph of a warehouse or factory floor. In the foreground, a yellow Jungheinrich forklift is visible, with a worker in a high-visibility vest operating it. The forklift is carrying a wooden pallet loaded with several large blue industrial drums. In the background, tall metal shelving units are filled with more of these blue drums, extending into the distance. A large, semi-transparent blue graphic element, resembling a technical drawing or blueprint, is overlaid on the lower-left portion of the image. This graphic contains white lines and text, including the product name and technical specifications. The overall scene is brightly lit, suggesting an industrial environment.

# Roto Synthetic Fluid FOODGRADE

Atlas Copco Lubricants

Certified foodgrade lubricant for compressed air

Roto Synthetic Fluid Foodgrade is a high-performance fluid specifically designed for use in oil injected screw compressors operating in the Food/Beverage, pharmaceutical and packing industry.

# Roto Synthetic Fluid FOODGRADE

Atlas Copco Lubricants

National and international regulations specify strict manufacturing standards regarding contamination risk management in this industry. Our RSF Foodgrade is based on a careful blend of synthetic fluids and additives that meet these stringent requirements, allowing for active Critical Control Points management (in an HACCP system) and providing increased customer confidence in the food products' safety.



|   | Features  | Benefits   |
|---|---|--|
| <b>Specifically designed for compressor operation</b>         | RSF Foodgrade is not a standard food grade lubricant, its formulation responds to the specific Food & Beverage as well as Pharmaceutical operating conditions.  | Optimizes overall performance, maintenance profile and operating cost of the compressor.   |
| <b>High viscosity index to maintain properties</b>            | Allows for operation in a wide temperature range, typical for the Food & Beverage industry.   | Maintains lubricant properties over an extended lifetime.  |
| <b>Low pour point maintains properties at low temperature</b> | A lower pour point limits the resistance to the flow of the lubricant, which is particularly important during starting.   | Allows operation in chilled environments like freezers.  |
| <b>High water resistance</b>                                  | Better water shedding properties reduce oil contamination and extend the oil lifetime. The lubricant's ability to separate from water is critical to reduce oxidation on metallic parts. Ability to separate during the condensate treatment process. | Water resistance is a critical factor in Food & Beverage, as water is often used in process and during cleaning, which results in a saturated atmosphere. Compatible with OSC & OSD condensate treatment devices, with high purity separation. |
| <b>Incidental food contact approval</b>                       | The RSF Foodgrade is approved by NSF International (Non-food Compounds Registration), the former USDA (United States Department of Agriculture) for H1 application.   | Contributes to your HACCP system and provides your customer with a tangible proof of quality for the product you manufacture.  |
| <b>Specific manufacturing approvals</b>                       | Kosher and Halal compliance.  | Complies with most important international manufacturing requirements.   |



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# Lubricant characteristics

Appearance: Clear liquid

| Performance                | Method      | Unit                  | Value    |
|----------------------------|-------------|-----------------------|----------|
| Density at 15°C            | ISO 3675    | kg/dm <sup>3</sup>    | 0,84     |
| Viscosity class ISO VG     | ISO 6743    | mm <sup>2</sup> /s    | ISO VG46 |
| Viscosity index            | ASTM D 2270 |                       | 134      |
| Water separability at 54°C | ASTM D 1401 | ml oil/water/emulsion | 40/40/0  |
| Foam stability             | ASTM D 892  | ml                    | 0/0/0    |
| Total acid number          | ASTM D 974  | mg KOH/g              | 0,3      |
| Rust test                  | ASTM D 665B |                       | Pass     |
| Pour point                 | ASTM D 97   | °C                    | -57      |

These characteristics are typical of current production. Whilst future production will conform to Atlas Copco's specification, variations in these characteristics may occur. Complies with ISO 6743 /3 /1A class L-DAH

## ID Card

| Roto Synthetic Fluid FOODGRADE |  |
|--------------------------------|--|
| Oil type                       | Synthetic base lubricant, specifically engineered for Food & Beverages, Pharmaceutical applications and its packing. |
| Service intervals              | 4 000 h or 1 year at reference conditions  |
| Environment                    | Ambient temperature range at 0°C to 35°C   |
|                                | Maximum operating pressure 15 bar  |
| Equipment                      | Atlas Copco oil injected screws  |
| Compatibility                  | GA – GX compressors  |
| Capacity (ID)                  | 5 l plastic can<br>20 l plastic can  |
| Approvals                      | <a href="#">NSF</a> - H1, Halal and Kosher   |



NSF Food Safety