

Roto Synthetic Fluid FOODGRADE

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. 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
Specifically designed for compressor operation	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.
High viscosity index to maintain properties	Allows for operation in a wide temperature range, typical for the Food & Beverage industry.	Maintains lubricant properties over an extended lifetime.
Low pour point maintains properties at low temperature	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.
High water resistance	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.
Incidental food contact approval	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.
Specific manufacturing approvals	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 ³	0,84
Viscosity class ISO VG	ISO 6743	mm ² /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

Name	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 (1630 0833 00) 20 l plastic can (1630 0542 00)
Approvals	NSF - H1, Halal and Kosher



NSF Food Safety