

Atlas Copco lubricants Roto-Food Grade Fluid

Certified Foodgrade Lubricant for compressed air

Air quality has a major impact on food safety. It is impossible to remove 100% of oil vapour from compressed air produced with oil injected screws, even with multi-stage filtration. Therefore, in addition to the high customer expectations, national and international regulations specify strict manufacturing standards regarding contamination risk management.

Atlas Copco Roto-Foodgrade Fluid has been engineered specifically for use in air compressors operating in the Food & Beverage industries, 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	Roto-Foodgrade Fluid is not a standard food grade lubricant, its formulation responds to the specific Food & Beverage 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 Roto-Foodgrade Fluid 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

Water white

Performance	Method	Unit	Value
Density at 15 °C	ASTM D 1298	kg/dm ³	0.838
Viscosity at 40 °C	ASTM D 445	mm ² /s	46
Viscosity index	ASTM D 2270		153
Demulsibility at 54 °C	ASTM D 1401	ml oil/water/emulsion	40/40/0 (20 min)
Foam tendency SEQ I / II / III	ASTM D 1298	ml	0/0-30/0-0/0
Total acid number	ASTM D 892	mg KOH/g	0,03
FZG fail stage	ASTM D 974		>12
Rust test	CEC-L-A085		pass
Pour point	ASTM D 665B	°C	-51

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-Foodgrade Fluid
Oil type	Synthetic base lubricant, specifically engineered for Food & Beverages application
Service intervals	4,000 h or 1 year at reference conditions
Environment	Continuous operation, mild ambient temperature +30°C / +86°F Intermittent operation, high ambient temperature +46 °C / +115 °F Maximum operating pressure 15 bar
Equipment	Atlas Copco oil injected screws
Compatibility	GA - GX compressors
Capacity (ID)	20 l plastic can (2901 0690 10)

