



Atlas Copco

Roto Z Fluid

Atlas Copco Lubricants

For oil-free Z rotary screw and tooth compressors

Roto Z Fluid is a high-quality lubricant, uniquely tailored to the specific requirements of the Atlas Copco Z-compressors. Its special formulation yields top performance and maximum lifetime of all moving parts. Reliability is safeguarded and equipment availability is maximal.

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Roto Z is cost-effective as drain intervals are doubled in comparison to conventional lubricants.

Roto Z incorporates the functional benefits of a preservative mineral oil, which allows for an extended on-site storage of several months.



Features		Benefits
Excellent anti-wear properties	Roto Z contains proven anti-wear additives to be effective throughout the range of operating conditions.	This load carrying capacity is particularly important because oil-free compressors are driven by gears, requiring oils with anti-wear properties reducing gear teeth and bearing wear.
Thermal stability	Roto Z is thermally stable in severe conditions of load and temperature.	The oil has a high resistance to degradation and sludging.
Oxidation resistance	The good oxidation control minimizes the formation of aggressive corrosive acids, deposits and sludge.	This oxidation resistance will reduce your operating costs.
High viscosity index	Oil viscosity remains at amore stable level, even at high temperatures. This means lubricating efficiency is maintained under varying conditions.	Keeps working hard, whatever the conditions, even at high operating temperature. Increases the bearing lifetime and reduces the general danger in the oil circuit.

Lubricant characteristics

Appearance: Light brown

Performance	Method	Unit	Value
Density at 15°C	ISO 3675	kg/dm ³	0,860
Viscosity at 40°C	ASTM D 445	mm ² /s	68
Viscosity index	ASTM D 2270		133
Foam stability	ASTM D 892	ml	0/0/0
Total acid number	ASTM D 974	mg KOH/g	0,18
Rust test	ASTM D 665B		Pass
Pour point	ASTM D 97	°C	-30

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 Z Fluid		
Oil type	Mineral based oil with tailored additive pack	
Service intervals	All conditions 8 000 h < 55 kW 16 000 h > 55 kW	
Environment	Ambient temperature range at 0°C to 50°C	
Equipment	Atlas Copco oil-free screws	
Compatibility	ZR – ZS – ZT – ZA – ZE compressors	
Capacity (ID)	5 l plastic can	(2908 8503 00)
	20 l plastic can	(2908 8501 01)
	209 l metal drum	(2908 8500 00)

