

# Roto Synthetic Fluid ULTRA

## High quality synthetic oil for demanding applications

With several years of experience on developing cutting edge technology on compressors, Atlas Copco has designed a unique additive package that enables the Roto Synthetic Fluid Ultra to work in harmony with all other components in the compressor.

With extended service intervals of up to 4 000 hours when operating in demanding conditions, RS Ultra is a combination of a premium synthetic base fluid with an enhanced additive package to allow your compressor to operate in dusty and humid conditions and keeping your system deposit free. This combination (base oil and tailor made additive package) insures compressor protection and improves the energy consumption when comparing with our mineral lubricants.



	Features	Benefits
<b>Excellent resistance against oxidation</b>	Slows development of acids in the lubricant to extend oil life and maintain its properties within service intervals.	Longer drain intervals: up to 4 000 hours or 2 years even in demanding conditions.
<b>Exceptional protection against deposit formation</b>	Protection against sludge formation keeps the system clean and limits contamination through the oil separator.	A lower pressure drop through the oil separator reduces energy consumption.
<b>High viscosity index</b>	Oil viscosity remains at a more stable level, even at high temperatures.	This means lubricating efficiency and screw/bearing protection is maintained under varying conditions.
<b>Good protection against corrosion</b>	High hydrolytic stability prevents rust in case of water contamination.	Protects your investment, even when operating in very humid conditions or during standstill periods of transport or storage.
<b>Outstanding demulsifying properties</b>	High ability to separate from water, important during the lubricant cooling phase. The ability to separate during the condensate treatment process.	Protects against corrosion. Compatible with the Atlas Copco OSC & OSD condense treatment devices with high purity separation.
<b>Reduced oil consumption</b>	Thanks to the combination of a tailor made additive package and base oil, RS Ultra is less volatile.	Reduced oil "top-up" saves money and is good for the environment.
<b>Increased lubricant lifetime</b>	Longer service intervals will decrease the number of oil changes.	Saves costs on labor, lubricant disposal and purchase frequency. Environment friendly.

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## Lubricant characteristics

### Appearance:

Clear light brown

Performance	Method	Unit	Value
Density at 15°C	ISO 3675	kg/dm <sup>3</sup>	0,832
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	45,25
Viscosity index	ASTM D 2270		144
Water separatebility at 54°C	ASTM D 1401	ml oil/water/emulsion	40/40/0 (5 min)
Foam stability	ASTM D 892	ml	0/0/0
Total acid number	ASTM D 974	mg KOH/g	0,09
NOACK evaporation	ASTM D 5800	%	2,0
Rust test	ASTM D 665B		Pass
Pour point	ASTM D 97	°C	-45

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 ULTRA
<b>Oil type</b>	Engineered synthetic based lubricant
<b>Service intervals</b>	Up to 4 000h or 2 years at demanding ambient conditions (Compressors) and 2 000h or 2 years (Compressors with Energy Recovery Systems)
<b>Environment</b>	Ambient temperature range from 0°C to +40°C & dusty environment or ambient temperature range from 0°C to +40°C & humid environment
	Compatible with operation in high humidity conditions
	Compatible with high pressure equipment
<b>Equipment</b>	Atlas Copco oil injected screws
<b>Compatibility</b>	GA - GX - GN - GR compressors
<b>Capacity (ID)</b>	5 l plastic can (1630 2041 05) 20 l plastic can (1630 2041 20) 209 l metal drum (1630 2041 29) 1000 l container (1630 2041 00)

