

# Rotary Compressor Oil

## ISO 46 & 68

### Product Description

Anglomoil RCO is a synthetic based, ashless high performance compressor fluid that has been developed specifically to meet the special needs of the rotary axial flow compressor. Its synthetic base and multifaceted chemistry gives improved performance and longer fluid life.

### Product Features & Benefits

The oil in a compressor operates at high temperatures (in the vicinity of 100°C) for long periods. It must possess high resistance to oxidation.

Air always contains moisture. The oil must resist emulsification with the water.

Where high metal pressures are encountered, the oil must protect against scuffing and wear.

#### Anglomoil Rotary Compressor Oil has:

- Excellent thermal and oxidation stability to reduce oxidation and the formation of acids and sludge particularly at high temperatures that could result in costly system cleaning.
- Excellent rust protection giving cleaner oil, lasting longer, reducing wear and any filter blockages.
- Superior demulsibility reducing the possibility of corrosion or poor lubrication and having to replace system components.
- Good filterability
- Good hydrolytic stability
- Superior antifoam characteristics

### Additional Information

Anglomoil Rotary Compressor Oil meets or exceeds the performance requirements for:

<b>Hydraulic Performance</b>	DIN 51524, Part 2 & 3 (HLP, HVLP)	Hoesch HWN 2333
	AFNOR NF E 48-603 (HM, HV)	Thyssen TH N-256132
	SIS SS 155434	CETOP RP 91H (HM, HV)
	Denison Filterability TP 02100	US Steel 126, 127 & 136
	VDMA 24318	Sperry Vickers M-2950-S & I-286-S
<b>Compressor Performance</b>	DIN 51506 (VBL, VCL, VDL)	ISO/DP 6521 (DAA, DAB, DAH, DAG)

### Typical Characteristics

	ISO 46	ISO 68
S.G. @ 20 °C	0.803	0.840
Viscosity @ 40°C	44.9	67.8
Viscosity @ 100°C	7.86	10.7
Viscosity Index	146	148

## RCO 46 Test Results

Test Method	Test Results
Rotating Bomb (ASTM D2272) life time, min	415
Air Release Properties / 50 °C (DIN 51381), min	<1
Demulsification Capacity / 54 °C (ASTM D1401) Oil-water emulsion, ml Separation time, min	40-40-0 5
Copper Corrosion 3h / 100 °C 24 h / 100 °C 48h / 100 °C 3 h / 135 °C	1a 1b 1b-2a 1b-2a
Corrosion Test (steel) (ASTM D130) Procedure A(distilled water) Procedure B (synthetic sea water)	No Corrosion No Corrosion
Faming Behaviour (surface foam) (ASTM 892) Sequence 1, ml/ml, sec Sequence 2, ml/ml, sec Sequence 3, ml/ml, sec	10/0 (5) 0/0 10/0 (5)
FZG Test A 8.3/90 (visual) (DIN51354, part 2) Damage-load stage	>12
VKA (four ball test) – AW Properties (DIN 5130, part 3; ASTM D4172) Scar Diameter, mm 1500 rpm / 1h / 300N 1800 rpm / 1h / 200N 1800 rpm / 1h / 400N	0.34 0.28 0.36
AFNOR-Filterability – wet procedure (AFNOR NF E 48-691) Pore size: 0,84m, ageing:0.2% H <sub>2</sub> O/70 °C filtration index (FI)	1.1 (base oil 1.1)
Water separation ability after steam treatment (DIN 51589, part 1) Separation times (s)	95
Conradson carbon residue after aging by passing air in the presence of FE <sub>2</sub> O <sub>3</sub> (DIN 51352, part 2) Evaporation loss, % Carbon residue after aging, %	6.7 0.21
Residue after distillation of 80 vol.% (DIN 51356, DIN 51551) Conradson carbon residue, % Viscosity 40 °C before distillation, mm <sup>2</sup> /s Viscosity 40 °C after distillation, mm <sup>2</sup> /s	Under evaluation

### RCO Test Results Continued

Test Method	Test Results
Oxidation / corrosion test (FTM 5308.6, modified DIN 51394) 72h / 175 °C / 5 air per hours Weight change of metal specimen, mg/cm2	
Cu	+0.05
Steel	+0.02
Al	+0
Mg	+0.03
Cd	+0.02
Change in TAN, mgKOH/g	-0.11
Change in viscosity 40 °C, %	+2.2
Change in viscosity 100 °C, %	+2.1
Seal Compatibility (DIN 53521) SRE-NBR 1 / 7d/100 °C	
Relative change in volume, %	+5.2
Change in shore a hardness	-1

Master Item# 2121 & 2123  
 Pack Size Availability: 20L, 200L

Last Updated: 11<sup>th</sup> March 2021