



## RC-R

### Premium Mineral- Based Air Compressor Oils

#### Description

Formulated with highly refined mineral base oils and selected additives that minimise oxidation, deposit-formation, foaming and filter-blocking.

They also provide enhanced load-carrying and anti-wear properties, combat the effects of water-contamination and prevent corrosion.

#### Applications

The RC-R grades are ashless oils recommended for the lubrication of rotors, bearings and gears in rotary compressors, especially the oil-flooded screw type with delivery temperatures of up to 120 °C. Under these conditions it is important that the oil maintains its high lubrication performance. The grades in this range are suitable for both static and mobile systems, operating at ambient temperatures ranging from -25 °C to 50°C. Most rotary applications call for ISO 32 or ISO 46 grades and the higher-viscosity grades ISO 68 and 100 may be used satisfactorily in reciprocating compressors.

The RC-R oils meet the requirements of the following standards:

-ISO DP 6521 for mineral oils: L-DAH and L-DAG for rotary air compressors

-DIN 51352 p. II (Pneurop Oxidation Test)

These oils are approved by:

-Atlas Copco

-Compair

-Consolidated Pneumatic Tool

RC-R 100 is registered with AQIS Category 12 Lubricant Type C.

#### Main Benefits

- Low deposit-forming tendency
- Prevention of oil-filter blockage in the presence of water
- Excellent anti-wear performance to extend service life of compressors
- Oxidation resistant for long service life

- Rapid separation of oil/air in the air-coalescer for long air-filter life and lower oil-carryover
- Powerful water-separation and anti-corrosion characteristics to counter adverse effects of moisture contamination

#### Storage

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum

markings. Products should not be stored above 60° C.

#### Health, Safety and Environment

Health, safety and environmental information is provided for this product in the relevant Materials

will not accept liability if the product is used other than in the manner or with the precautions or for the

Safety Data Sheet, which can be obtained by contacting the BP Lubricants and Fuels Technical Helpline on 1300 139 700. BP Australia, or its subsidiaries

purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office or Lubricants and Fuels Technical Helpline.

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### Typical Characteristics

Grade:	RC-R		32	46	68	100
Mnemonic:			RCR32	RCR46	RCR68	RCR100
Product Code:			200694	200700	200670	200712
	Test Method	Units				
Density @ 15 °C	ASTM D1298	kg/L	0.875	0.879	0.883	0.884
Flash Point (PMC)	ASTM D93	°C	194	198	206	210
(COC)	ASTM D92	°C	206	213	218	230
Kinematic Viscosity						
40 °C	ASTM D445	cSt	34	48	70	97
100 °C	ASTM D445	cSt	5.6	7.0	9.0	11.0
Viscosity Index	ASTM D2270		102	104	102	98
Pour Point	ASTM D97	°C	-36	-33	-30	-27
Neutralisation Value	ASTM D974	mgKOH/g	0.15	0.15	0.15	0.15
Copper Corrosion (3h/100°C)	ASTM D130	rating	1B	1B	1B	1B
Rusting Test	ASTM D665A	rating	pass	pass	pass	pass
Foam Tendency/Stability	ASTM D892					
Sequence I		ml/ml	<5/0	<5/0	<5/0	<30/0

Sequence II		ml/ml	<10/0	<10/0	<10/0	<30/0
Sequence III		ml/ml	<5/0	<5/0	<5/0	<5/0
Air Release @ 50 °C	ASTM D3427	min	1.5	2.9	4.0	27
Demulsification @ 54°C	ASTM D1401					
Oil		mL	41	40	42	41
Water		mL	39	40	38	39
Emulsion		mL	0	0	0	0
Time		min	5	15	15	30
FZG Gear Test :	IP 334	load stage	>12	>12	>12	>12
(A/8.3/90°C)		failure				

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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BP Australia Pty Ltd Lubes & Fuels Tech. Helpline: 1300 139 700  
Melbourne Central Tower Fax (Australia): (03) 9268 4394  
360 Elizabeth Street  
Melbourne Victoria 3000

ABN 53004 085 616  
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**Last Modified:** 04/09/2003 06:44:59