

## Medical Oxygen E.P.

### Life support, resuscitation, anaesthetic delivery

**WARNING:** OXYGEN AIDS AND INCREASES COMBUSTION

Oxygen strongly supports combustion (including some materials which do not normally burn in air). Smoking is prohibited when medical oxygen is in use, and no naked flame is allowed. There is a high risk of spontaneous combustion if oxygen comes into contact with oils, greases and tarry substances. Refer MSDS before use.

Oxygen is colourless, odourless and tasteless. Oxygen is pale blue in liquid form. It will vigorously support and accelerate combustion. It is supplied as a compressed gas in high pressure cylinders. Generally considered non-toxic at atmospheric pressure. Materials not normally considered combustible may be ignited by sparks in Oxygen-rich atmospheres. Advice should be sought from BOC before using any materials for Oxygen service which have not been supplied for use with Oxygen and marked accordingly.

#### Uses

- Essential for human respiration, Oxygen sustains life
- In anaesthesia, Oxygen functions as a carrier gas for the delivery of anaesthetic agents to the tissues of the body
- In respiratory therapy, Oxygen is administered to increase the amount of Oxygen and thus decrease the amount of other gases circulating in the blood
- Oxygen is also widely used in high altitude and underwater breathing, and hyperbaric chambers
- Oxygen is used as the basis for virtually all modern anaesthetic techniques as well as pre and post operative management
- To provide life support by restoring Oxygen levels in tissue for a range of conditions such as; cyanosis as a result of cardiopulmonary disease; surgical trauma, chest wounds and rib fractures; shock, severe haemorrhage and coronary occlusion; Carbon Monoxide poisoning; hyperpyrexia; major trauma e.g.: road traffic accidents and gunshot wounds
- In the management of sudden cardiac and respiratory arrest, whether drug induced or traumatic
- In the resuscitation of the critically ill when the circulation is impaired and in neo-natal resuscitation



White shoulder



#### Classifications

1072 UN NUMBER

2.2, 5.1 CLASS

115 AUST. MSDS

054 N.Z. MSDS

### Duration (hours)\*

AUST. Cylinder	Cylinder Size	400 C	400 CD**	400 ND	400 NE	400 NG
	Contents (Litres)	490	630	1,600	4,000	8,075
	1 lpm	8:10	10:30	26:40	66:40	134:35
	2 lpm	4:05	5:15	13:20	33:20	67:17
	3 lpm	2:43	3:30	8:53	22:13	44:51
	4 lpm	2:03	2:37	6:40	16:40	33:38
	5 lpm	1:38	2:06	5:20	13:20	26:55
	6 lpm	1:21	1:45	4:26	11:06	22:25
	7 lpm	1:10	1:30	3:48	9:31	19:13
	8 lpm	1:01	1:18	3:20	8:20	16:49
	10 lpm	0:49	1:03	2:40	6:40	13:27
	15 lpm	0:32	0:42	1:46	4:26	8:58

N.Z. Cylinder	Cylinder Size	180A	180D	180E	180F	180G
	Contents (Litres)	440	1490	2350	3700	7290
	1 lpm	7:20	24:50	39:10	61:40	121:30
	2 lpm	3:40	12:25	19:35	30:50	60:45
	3 lpm	2:25	8:17	13:03	20:33	40:30
	4 lpm	1:50	6:12	9:48	15:25	30:23
	5 lpm	1:28	4:58	7:50	12:20	24:18
	6 lpm	1:13	4:08	6:32	10:17	20:15
	7 lpm	1:03	3:33	5:36	8:49	17:21
	8 lpm	0:55	3:06	4:54	7:42	15:11
	10 lpm	0:44	2:29	3:55	6:10	12:09
	15 lpm	0:29	1:39	3:37	4:07	8:06

\* Times shown are approximations only.

\*\* INHALO® (400CD) System incorporates valve, regulator and flowmeter.

### Equipment

Description	Inlet Fitting	Part Number AUST	Part Number NZ
Carnét Oxygen Pressure Regulator – AS Outlet Fitting	Pin Index	819-0071	819-0071
Carnét Oxygen Pressure Regulator – BS Outlet Fitting	Pin Index	–	819-0080
Carnét Oxygen FireSafe Flowmeter – Single	AS Inlet Fitting	829-0901	829-0901
Carnét Oxygen FireSafe Flowmeter – Single	BS Inlet Fitting	–	829-0301
Carnét FireSafe Nozzle – PK 10	9-16" UNF (DISS)	827-0031	827-0031
Carnét Oxygen Dial-Flow Regulator 0-15LPM	Pin Index	818-0051	818-0051
Carnét Oxygen Dial-Flow Regulator 0-3LPM	Pin Index	818-0040	818-0040
Erie Oxygen Combined Regulator & Flowmeter 0-25LPM	Pin Index	–	ER473025
Erie Oxygen Combined Regulator & Flowmeter HP Port 0-25LPM	Pin Index	–	ER473025HP

Some parts are not available in Australia or New Zealand.

**AUST. Specifications** Medical Oxygen E.P. (AUSTR 34468)

Component (nominal)	
Oxygen	> 99.5%

Impurities (max)	
Carbon Dioxide	< 300 ppm
Carbon Monoxide	< 5 ppm
Moisture	< 67 ppm

**AUST. Order Codes**

Cylinders	Contents (Litres)	Gauge Pressure kPa (g) at 15°C
400B	170	16,300
400C	490	16,300
400CD	630	25,000
400ND	1,600	16,300
400NE	4,000	16,300
400NG	8,075	16,300
400NF9	51,930	16,300
400NMAN15	126,000	16,300

**Cylinder Outlets**

CD	AS 2896 Sleeve Index 300 lpm (max) Barbed Tail 0-15 lpm Outlet flowrate @ 400 kPa (g)
B, C, ND, NE, NG, NF9, NMAN15	AS 2473.3 Fig. 9 Pin Index

**N.Z. Specifications** Medical Oxygen E.P. (TT50-4096)

Component	
Oxygen	≥ 99.5%

Impurities (max)	
Carbon Dioxide	< 300 ppm
Carbon Monoxide	< 5 ppm
Moisture	< 67 ppm

**N.Z. Order Codes**

Cylinders	Contents (m <sup>3</sup> )	Gauge Pressure kPa (g) at 15°C
180AA	0.16	15,200
180A	0.44	15,200
180D	1.49	15,200
180E	2.35	15,200
180G	7.29	15,200
180G15	109.42	15,200

**Cylinder Outlets**

AS 2473.3 Fig. 9
------------------

**Australia:** BOC Limited ABN 95 000 029 729, BOC Healthcare 10 Julius Ave, North Ryde NSW 2113  
T: 1300 363 109 F: 1300 363 438 E: hospital.care@boc.com

**New Zealand:** BOC Limited WN007748, BOC Healthcare NZ, 988 Great South Rd, Penrose Auckland,  
T: 0800 656 334 F: 0800 275 275 E: HealthcareNZ@boc.com

Details given in this document are believed to be correct at the time of printing. While proper care has been taken in the preparation, no liability for injury or damage resulting from its use can be accepted. BOC is a trading name of BOC Limited, a member of The Linde Group. © BOC Limited 2013. Reproduction without permission is strictly prohibited.

---