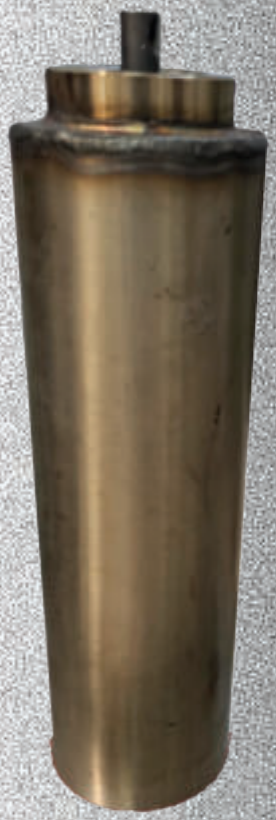
ECOG
Chemical Oxygen Generator

AUX SAFETY



APPLICATIONS

Safe supply of Oxygen for critical life support in submarine applications. In subamrine, mining, safe haven, emergency application.

DIMENSIONS

diameter	(mm)	89
height	(mm)	304
weight	(Kg)	4.7 +/- 0.5
stowage volume	(lt)	1.89

PROPERTIES

The oxygen producing chemical is sodium chlorate.

- MEDEVAC oxygen generators require no maintenance during storage
- Associated with a high degree of safety
- MEDEVAC are packed in an airtight stainless steel canister to protect from contaminants
- Ignition source – phosphorous match (supplied separately)
- Short time from stowage to operation

HOW IT WORKS

Oxygen is produced by the thermal decomposition of sodium chlorate. This decomposition requires a significant amount of energy input to drive the chlorate decomposition.
The source of this energy is the oxidation of iron powder (formulated with the sodium chlorate as a fuel).
The initial energy input from the interaction between chlorate and ignition source is generated by the initiation mechanism, in this case a brass starter.

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SPECIFICATIONS	STOWAGE	IN USE
▪ Depth x width (mm)	c133 x 133	c128 x 128
▪ Height (mm)	c400	c385 (418 including starter)
▪ Weight (kg)	12.2 +/- 0.5	
▪ Storage volume (litre)	c7	
▪ Oxygen generation (litre)		2600 @ NTP +/- 100
▪ Delivery duration (minutes)		55 - 95
▪ Purity of oxygen (%)		> 98
▪ Carbon monoxide (max. ppm)		< 50
▪ Carbon dioxide (max. ppm)		< 300
▪ Chlorine (max. ppm)		0.1
▪ Sodium chloride - salt (max. mg/l)		< 10
▪ Starter mechanism (not interchangeable)	Brass starter supplied separately	

ADDITIONAL INFORMATION

Number of generators per stillage	Gross weight of stillage (kg)	Dimensions of Stillage (W x D x H) cm
25 (unless otherwise stated)	380	80 x 80 x 70

Packaging, Transportation and Disposal

The units are not shipped with the brass starter mechanism. The units are classified as hazardous UN 1479 oxidising solid NOS, class 5.1 oxidiser, packing group II, and are packed in accordance with IATA regulations for air freight (not passenger aircraft) or IMDG Regulations for sea freight.

Contact local specialist waste contractors for guidance on disposal of used, part-used or damaged oxygen generators. Part-used or damaged oxygen generators are still classified as Oxidizers 5.1 hazardous material

NSN number of brass starter mechanism: 1375-99-667-8543

Quality

aim is to manufacture chemical products which satisfy completely the needs of our customers.
All products are rigorously tested to ensure conformance to the specification. Our activities comply with the requirements of ISO 9001.