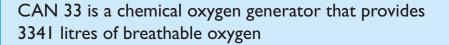
CAN 33



Applications

Safe supply of oxygen for critical life support and air revitalisation in the following applications:

Submarines (requires suitable furnace – see Specifications section)

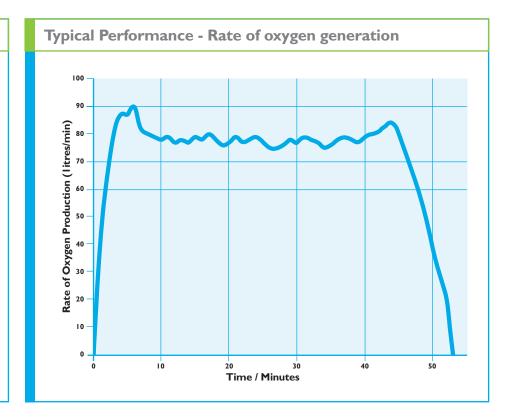
Properties

The oxygen producing chemical is sodium chlorate

• CAN 33 oxygen generators require no maintenance during storage

molecular

- Associated with a high degree of safety due to the absence of pressurised gases
- 7.4 litres storage volume per generator
- Approximately 440 litres oxygen per litre storage space @ STP
- Ignition source phosphorus nail
- Product requires specialist training and equipment maintenance for correct operation



Generator Dimensions

Generator and protective tube containing initiation mechanism

Height = 28.89 – 29.53 cm (11.37 – 11.62 inches) Diameter = 15.56 – 16.51 cm (6.13 – 6.50 inches)



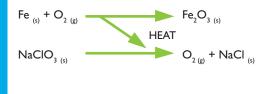
CAN 33

Specifications	
Oxygen generation - litres oxygen @ NTP	> 3341
Duration - minutes	40 – 60
Purity of oxygen - %	> 99
Weight of generator - kg (lb)	< 12.74 (28.09)
Carbon monoxide - parts per million analysed by infra red	< 25
Chlorine - parts per million analysed by electrochemical cell	< 2
Initiation mechanism	Phosphorus nail (supplied with oxygen generator, packaged in sealed unit and water tight protective tube, temporarily fixed to side of oxygen generator tin for transport)
Additional equipment required to operate generator	 Furnace capable of housing: A generator where the chemical block is located during operation The filter socks to filter the sodium chloride from the gas generated (routinely supplied by Molecular Products Ltd) A mechanism to operate the phosphorus match initiation device

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 phosphorus is generated by the initiation mechanism, in this case the phosphorus match.



Additional information

Packaging, Transportation & Disposal

Generators are packed four per box (gross weight 57kg,. dims 38 x 38 x 39 cm) with 12 boxes per pallet (2 layers of 6 boxes). Total pallet gross weight is 706kg, dimensions 120 x 80 x 94 cm.

Oxygen generators are classified as hazardous UN 1479, class 5.1 oxidiser, packing group II and are packed in accordance with IATA regulations for airfreight (not passenger aircraft) or IMDG regulations for seafreight.

Spent oxygen generators are classed as non-hazardous and can be disposed of to landfill by a specialist waste contractor.

Quality

Molecular Products Ltd's 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 to the requirements of ISO 9001.

Molecular Products Limited

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