## MineARC Systems Rugged Oxygen Generator (ROG)

The Rugged Oxygen Generator (ROG) is a portable, lightweight oxygen generator that delivers 90 litres of breathable oxygen for 15 minutes. Easy-to-use and small enough to carry in a backpack, the ROG gives immediate access to a potentially life saving oxygen supply.

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Oxygen is produced by the thermal decomposition of sodium chlorate within the ROG. 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 primer is generated by the initiation mechanism, in this case a phosphorous match.



## **Major Features**

- Oxygen producing chemical utilised: Sodium chlorate
- Self contained chemical oxygen generator requires no maintenance during storage
- Unit activated via an integrated phosphorous match
- Produces a minimum of 90 litres of breathable oxygen @ NTP over approximately 15 minutes
- Associated with a high degree of safety due to the absence of pressurised gases
- Resistant to shock and vibration
- Suitable for use at altitudes of up to 20,000 feet
- Portable and easy to use
- Handheld operation
- Unpressurised and non-explosive
- Cool flow gas technology

## **Product Specifications**

Depth x width	115mm
Height	284mm
Weight	2.3kg
Outer temperature of unit	≤ 45°C
Oxygen generation	≥ 90L
Minimum delivery duration	15 minutes
Purity of oxygen	≥ 99.5%
Carbon monoxide	5ppm average
Carbon dioxide	300ppm average
Chlorine	0.2ppm average
Operating & storage temperature range	-13 to 40°C
Starter mechanism	Integrated
Average flow rate	≥ 6 L/min
Shelf life	3 years