

SofnoDive® 797



Disposable CO₂ absorber cartridge



molecular

Purpose

The cartridge is designed for the removal of carbon dioxide (CO₂) from the breathing circuit of a properly designed closed or semi-closed breathing loop. The disposable cartridge should only be used as part of a breathing circuit for which it is designed. The original equipment manufacture (OEM) instructions should be read and followed regarding installation and use. The seals should not be removed until the unit is ready for use.

Transport

The cartridges are classified under international rules as non-hazardous for transport by road, rail, sea and air, but any local carrier rules should be checked. The soda lime cartridge contents is classified as a irritant under European supply legislation, but is contained in the cartridge to prevent contact with the user.

Use

- Remove cartridge from transport packaging (box).
- Just prior to use, remove outer shrink sleeve - this must be fully removed so that it cannot interfere with the airflow in the breathing circuit of the unit.
- Remove both end caps.
- Inspect the cartridge for damage - do not use cartridges that have been damaged i.e. cracked or broken through rough handling.
- Insert unit into rebreather cartridge housing according to the OEM instructions.
- Follow OEM recommendations as to multiple dive use.
- Do not reuse cartridges after removal from the dive unit.

Note: once the seals have been removed the unit should be used within 24 hours. As with all carbon dioxide absorber materials, units left exposed to the atmosphere with the seals removed can lose or gain moisture, which adversely affects carbon dioxide absorption performance.

Duration

The unit is designed to fit and operate in OEM equipment and the duration will depend on the work rate of the user and the efficiency of the circuit it is used in. Please refer to the OEM operating manual for duration and operating conditions.

Disposal of used units

Used units or units that have been left for extended times with the seals removed should be disposed of in a safe manner. The cartridge contains calcium hydroxide and less than 4% sodium hydroxide which, within the EU, is classified as irritant. Single units can often be disposed of with domestic waste (but check local waste disposal legislation). Commercial quantities should be disposed of to landfill or incineration via a licensed disposal service.

Spills

Damaged or broken cartridges may allow the absorber material to escape, so should not be used. Any soda lime that may have spilled out should be brushed or vacuumed up and disposed of. Avoid skin and eye contact with the contents if the cartridge is damaged. In the event of contact with the absorber contents rinse the contaminated area with water.

Conditions of use and limit of liability

The diving rebreather absorber cartridge is designed to be a single use item and should only be inserted into the diving housing once. No liability can be accepted for cartridges used outside the designed operating mode.

Only remove the seals immediately before use. The seals are designed to protect the cartridge in storage and prior to use. Once removed, the cartridge should normally be used or discarded within 12 hours.

The cartridge should only be used as part of a rebreather diving unit that it is designed to fit. The manufacturer's advice on dive duration should be used for dive planning.

Once the cartridge is removed from its packaging and exposed to the atmosphere it will start to absorb carbon dioxide and absorb or lose water content depending on the ambient conditions. For this reason it is advised that an unsealed canister should not be used after it has been left open for more than 12 hours.

Multiple short duration dives may be carried out on a single cartridge in a single day providing the diving equipment manufacturer's advice is followed.

Used, part used or unused cartridges must not be left in the diving equipment for more than a day at a time, as the condition of the absorbant cannot be predicted over longer durations.

In cases of abuse, post-use analysis of the absorbent material can often determine its use history.

Failure to follow the guidance above is entirely at the user's risk and discretion. Molecular Products Ltd can give no guarantee of the cartridge performance outside of the above conditions.

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