

S BOX

FILLED WITH SOFNOLIME, THE S BOX IS DESIGNED TO BE USED IN A PURPOSE BUILT SUBMARINE MANIFOLD SYSTEM TO MAINTAIN A BREATHABLE ATMOSPHERE



APPLICATIONS

- Submarine primary system
- Commercial submarines

DIMENSIONS

Depth x width (mm)	251 x 251
Height (mm)	163

PROPERTIES

- Highly volumetrically efficient (160 litres of CO₂ absorption per kg storage)
- No maintenance
- Reliable operation
- Easy to use
- Watertight seals

HOW IT WORKS

Sofnolime removes carbon dioxide (and other acidic contaminants) from gas streams via an exothermic, water facilitated, base catalysed chemical reaction. The Sofnolime contains a carefully controlled level of water which aids the reaction. Water is also formed as a by-product of the reaction. The reaction proceeds in 3 stages:

(i) Reaction at aqueous layer



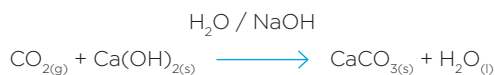
(ii) Bicarbonate formation



(iii) Decomposition/regeneration of NaOH catalyst



The overall balanced equation being



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**SPECIFICATIONS**

Sofnolime Grade	1025 'S' Grade
Carbon dioxide removal capacity of unit	> 960 litre/unit @ 1% carbon dioxide
Minimum Sofnolime fill	6.4 kg
Shelf life	5 years

DIMENSIONS

Sofnolime Grade	1025 'S' Grade (1.0 - 2.5mm)
Unit weight	7 kg
Unit Dimensions / mm (w x d x h)	251 x 251 x 163

ADDITIONAL INFORMATION**Packaging, Transportation & Disposal**

Canisters are packed in cardboard boxes and then placed on a pallet. The units should be disposed of in accordance with local legislation.

Sofnolime

Sofnolime is a soda lime absorbent for removal of carbon dioxide and other acidic contaminants from gas streams.

Sofnolime is an active compound formed by mixing calcium and sodium hydroxide. It is supplied as hard, porous, irregularly shaped granules which have been processed to maximise carbon dioxide absorption and minimise dust formation.




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 ISO9001 and ISO 13485.

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