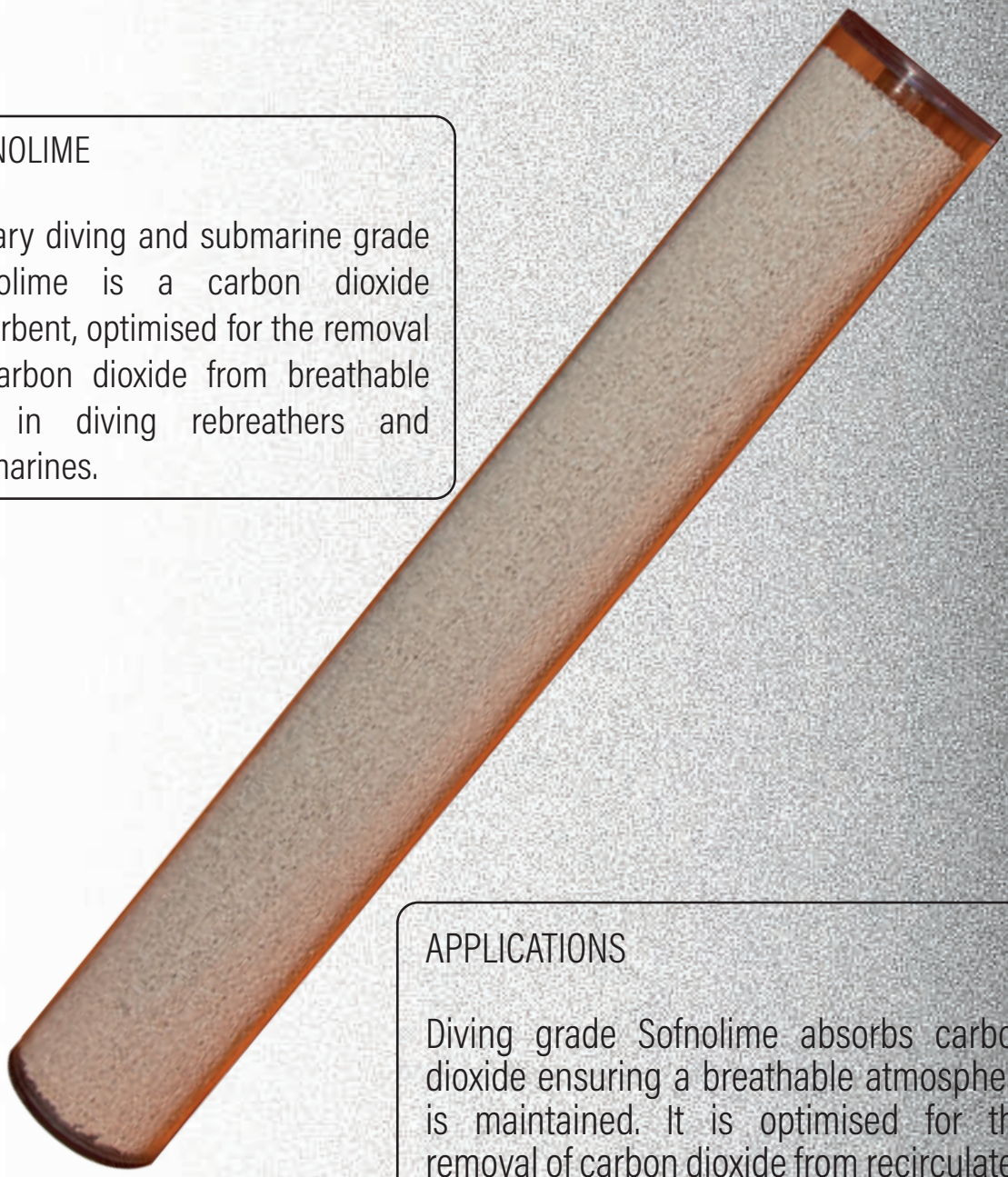
Sofnolime
Carbon Dioxide Absorption

AUX SAFETY

SOFNOLIME

Military diving and submarine grade Sofnolime is a carbon dioxide absorbent, optimised for the removal of carbon dioxide from breathable gas in diving rebreathers and submarines.



APPLICATIONS

Diving grade Sofnolime absorbs carbon dioxide ensuring a breathable atmosphere is maintained. It is optimised for the removal of carbon dioxide from recirculated air/nitrox/heliox in rebreathers, saturation dive systems and submarines.

- Military rebreathers
- Submarines

AUX Safety SRL - direct line: +393396985297 - e-mail: info@gasconsulting.it - www.aux-safety.com

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PROPERTIES

- High intrinsic carbon dioxide capacity
- Available with white to violet indicator
- Irregular shaped/sized granules for optimum packing
- High attrition resistance (low dust formation)

PRODUCT DETAILS

Two grades are available, 797 Grade and CD Grade. The main differences between the two grades are particle size and shape. CD Grade is a 2.0mm to 5.0mm extrudate with a D-shaped cross-section. The 797 Grade has a smaller particle size (1.0mm to 2.5mm) and has a triangular shaped cross-section, which combine to give a higher CO2 absorption capacity compared with CD Grade.

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Sofnolime®	1025 (812) D Grade			2050 (408) L Grade			1025 S Grade		
	Particle size	Specification	Typical Results	Particle size	Specification	Typical Results	Particle size	Specification	Typical Results
Characteristics		1.0-2.5mm			2.0-5.0mm			1.0-2.5mm	
	>2.80mm	1% Max	Zero	>5.60mm	1% Max	Zero	>2.80mm	1% Max	Zero
	2.00-2.80mm	30.0% Max	9%	4.75-5.60mm	7.0%	Zero	2.00-2.80mm	30.0% Max	9%
	1.40-2.00mm	Balance	83%	2.00-4.75mm	Balance	94%	1.40-2.00mm	Balance	83%
	0.60-1.40mm	20.0% Max	7%	0.60-2.00mm	15.0% Max	6%	0.60-1.40mm	20.0% Max	7%
	<0.60mm	1.0% Max	0.2%	<0.60mm	1.0% Max	0.2%	<0.60mm	1.0% Max	0.2%
Moisture		16-20%	NA		16-20%	NA		16-20%	NA
Hardness		>80%	>90%		>75%	>95%		>80%	>90%
Typical Usable Capacity			150 litres/kg			110 litres/kg			150 litres/kg

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.