



INTERSORB® 812

8 to 12 Mesh Indicating + Non-Indicating Soda Lime | Grade D

Description

Intersorb® 812 NI (Non-indicating)
Intersorb® 812 WV (Indicating)

Intersorb® 812 is comprised of 2 mm cylindrical granules. It has been developed specifically for use in saturation diving systems and other industrial applications, where humidity levels can be significantly lower than in personal protection closed circuit applications.

In these applications, Intersorb® shows a significant increase in CO₂ absorption capacity, compared with standard soda lime formulations.



Specifications

Chemical Composition: Intersurgical Tests

	Intersorb® 812 NI	Intersorb® 812 WV
Calcium Hydroxide	97%	97%
Sodium Hydroxide	3%	3%
Ethyl Violet	NIL	0.03%

Note: These figures represent the dry constituents. The product additionally contains 14% to 18% water.

Physical Properties: NATO test standard STANAG No. 1411

Particle Size	Intersorb® 812 NI + WV	Specification
Over 2.80 mm	0.6%	Max 1%
2.00 to 2.80 mm	25%	Max 30%
1.4 to 2.0 mm	Balance	Balance
0.600 to 1.40 mm	6%	Max 20%
under 0.600 mm	0.5%	Max 1%
Moisture Content	16%	14% to 20%

Specifications

Physical Properties: NATO test standard STANAG No. 1411

	Intersorb® 812 NI + WV	Specification
Hardness <i>(% retained on 1.4 mm screen)</i>	87%	Min 80%
Resistance to Flow <i>(40 L/min, absorber 10 cm diameter, 12.5 cm height, volume 1 litre)</i>	1.4 mbar unused 1.6 mbar used	

Carbon Dioxide Absorption: EN14143 with Ambient Air

	Intersorb® 812 NI + WV	Specification
Time to 0.5% CO ₂ breakthrough	100 minutes	80 Minimum
CO ₂ Capacity	150 L/kg	120 L/kg Minimum

105 ml absorbent in 30 mm diameter tube.
 Challenge gas: 3.0 L/min air containing 5% CO₂.
 Humidity 100%
 Temperature 20°C

Packaging, Transportation + Disposal

Intersorb® 812 is available in 45 pound airtight kegs. Standard shipping applies. Dispose of in accordance with local, state, and federal regulations.

Storage + Handling

Store in a dry, well ventilated area away from incompatible substances, such as strong acids. Avoid excessive temperatures. Keep container tightly sealed. Do not leave absorbent exposed to air for prolonged periods. Dust may cause irritation. Avoid breathing dust. Avoid contact with eyes. Wash hands and contact area after handling.

Precautions

Irritating to eyes, respiratory system and skin (see handling above).

Warranty

Dive Long will replace any material found to be defective, but accepts no liability through improper storage, handling or application of this product.

Disclaimer

All data provided herein is based upon years of research, laboratory testing and actual product usage. Dive Long makes no representations or warranties of any kind concerning this information.