

TECHNICAL DATA:
Intersorb 8 to 12 mesh Indicating and Non-indicating soda lime. Grade D

Product names:

Intersorb 812 NI (non-indicating)

Intersorb 812 WV (indicating)

Intersorb 812 is comprised of 2 mm cylindrical granules and has been produced to achieve the maximum carbon dioxide absorption and optimum physical properties. This is to achieve the most suitable performance within diving rebreathers.

Intersorb 812 has been tested to the following standards:

NATO test standard STANAG No 1411.

European standard 14143.

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 will additionally contains 14 % to 18 % water.

Physical properties: NATO test standard STANAG No 1411

	Intersorb 812 NI and WV Typical data	Specification
Particle size		
Over 2.80 mm	0.6 %	1 % max
2.00 to 2.80 mm	25%	30 % max
1.40 to 2.00 mm	Balance	Balance
0.600 to 1.40 mm	6 %	20 % max
Under 0.600 mm	0.5 %	1 % max
Moisture content	16 %	14 % to 20 %
Hardness (% Retained on 1.4mm screen)	87 %	80 % minimum
Resistance to flow (40 L/min, absorber 10 cm diameter, 12.5 cm height, volume 1 litre.)	1.4 mbar unused 1.6 mbar used	

Intersurgical Limited

Registered in England Reg. No. 1488409

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Carbon Dioxide absorption: **NATO test standard STANAG No 1411**

	Intersorb 812 NI and WV Typical data	Specification
Time to 0.5 % CO ₂ breakthrough (minutes)	100 minutes	80 minimum
CO ₂ capacity L/kg	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

Carbon Dioxide absorption: **European standard 14143.**

	Intersorb 812 NI and WV Typical data
Time to 0.5 % CO ₂ breakthrough (minutes)	365 minutes
Time to 1 % CO ₂ breakthrough (minutes)	392 minutes
CO ₂ capacity L/kg	245 L/kg
pH of drain water after test	8

Absorbent volume 3 litres
Challenge gas: 40 x 1 litre breaths per minute containing 1.6 L/min CO₂.
Humidity 80 to 90 % %
Temperature 32°C
Pressure Atmospheric.

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