INTERSURGICAL®
COMPLETE RESPIRATORY SYSTEMS
Quality, innovation and choice

Crane House Molly Millars Lane Wokingham Berkshire RG41 2RZ
T: +44 (0)118 9656 300 F: +44 (0)118 9656 356
www.intersurgical.com | info@intersurgical.com

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 NATO test standard STANAG No 1411.

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®
COMPLETE RESPIRATORY SYSTEMS
Quality, innovation and choice

Crane House Molly Millars Lane Wokingham Berkshire RG41 2RZ
T: +44 (0)118 9656 300 F: +44 (0)118 9656 356
www.intersurgical.com | info@intersurgical.com

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 % CO_2.
Humidity 100 %
Temperature 20°C

4th April 2011
Mike Holder
Product and Development Manager for Absorbents.
Intersurgical Ltd.
Tel direct 0044 (0)1189 656361
Fax 0044 (0)1189 656356