

**TECHNICAL DATA:
Spherasorb 4 to 8 mesh Indicating and Non-indicating
soda lime.**

Product names:
Spherasorb 408 NI (non-indicating)
Spherasorb 408 WV (indicating)

Spherasorb 408 is comprised of 3 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.

Spherasorb 408 has been tested to the following standards:
NATO test standard STANAG No 1411.
European standard 14143.

Chemical composition: Intersurgical tests.

	Spherasorb 408 NI	Spherasorb 408 WV
Calcium Hydroxide	93.5 %	93.5 %
Sodium Hydroxide	1.5 %	1.5 %
Zeolite	5 %	5 %
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

	Spherasorb 408 NI and WV Typical data	Specification
Particle size		
Over 5.60 mm	0 %	1 % max
4.75 to 5.60 mm	0 %	7 % max
2.00 to 4.75 mm	Balance	Balance
0.600 to 2.00 mm	0.4 %	15 % max
Under 0.600 mm	0.2 %	1 % max
Moisture content	16 %	14 % to 20 %
Hardness (% Retained on 2.5mm screen)	97 %	75 % minimum
Resistance to flow (40 L/min, absorber 10 cm diameter, 12.5 cm height, volume 1 litre.)	0.8 mbar unused 1.0 mbar used	

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

	Spherasorb 408 NI and WV Typical data	Specification
Time to 0.5 % CO ₂ breakthrough (minutes)	73 minutes	60 minimum
CO ₂ capacity L/kg	128 L/kg	100 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 408 NI and WV Typical data
Time to 0.5 % CO ₂ breakthrough (minutes)	266 minutes
Time to 1 % CO ₂ breakthrough (minutes)	294 minutes
CO ₂ capacity L/kg	184 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.

19th May 2010
Mike Holder
Product and Development Manager for Absorbents.
Intersurgical Ltd.
Tel direct 0044 (0)1189 656361
Fax 0044 (0)1189 656356