

Technical Data Sheet—Date: 10/25/2011 (Page 1 of 2)

|                    | orb 8 to 12 mesh Indicat  |  | 5   |
|--------------------|---|--|---|
| Description:       | Product name:<br>Intersorb 812 NI (non-indicating)<br>Intersorb 812 WV (indicating)   |  |   |
| Properties:        | Intersorb 812 is comprised of 2 mm cylindrical<br>granules and has been produced to achieve Intersorb 812 Granules<br>the maximum carbon dioxide absorption and<br>optimum physical properties. This is to achieve the most suitable performance<br>within rebreathers. |  |   |
|                    | Intersorb 812 has been to<br>Rebreather Recreation  |  | ard STANAG No 1411.<br>ommercial Diving, Military,          |
| Application / Use: | Mine Safety Equipment.<br>Chemical Composition:   |  |   |
| Specifications:    | Calcium Hydroxide<br>Sodium Hydroxide<br>Ethyl Violet   | Intersorb 812 NI           97%           3%           NIL            | Intersorb 812 WV           97%           3%           0.03% |
|                    | Note: These figures represent 18% water.  | the dry constituents. The pro-                                       | duct will additonally contain 14% to                        |
|                    | Physical properties: NAT<br>Particle Size   | O test standard STANA<br>Intersorb 812                               | G No 1411<br>Specification                                  |
|                    | Particle Size Over 2.80 mm  | Intersorb 812<br>NI and WV<br>Typical data<br>0.6%                   | Specification 1% max  |
|                    | Over 2.80 mm           2.00 to 2.80 mm           1.40 to 2.00 mm  | Intersorb 812<br>NI and WV<br>Typical data<br>0.6%<br>25%<br>Balance | Specification<br>1% max<br>30% max<br>Balance               |
|                    | Particle SizeOver 2.80 mm2.00 to 2.80 mm  | Intersorb 812<br>NI and WV<br>Typical data<br>0.6%<br>25%            | Specification<br>1% max<br>30% max                          |



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Product:

## Intersorb 8 to 12 mesh Indicating and Non-indicating soda lime Grade D

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

| Particle Size   | Intersorb 812<br>NI and WV<br>Typical data | Specification    |
|---|--|------------------|
| Hardness<br>(% Retained on 1.4mm<br>screen)   | 87%  | 80% minimum      |
| <b>Resistance to flow</b><br>(40 L/min, absorber 10 cm<br>diameter, 12.5 cm height,<br>volume 1 litre.) | 1.4 mbar unused<br>1.6 mbar used           |                  |
| Time to 0.5 %<br>CO <sub>2</sub><br>breakthrough<br>(minutes)   | 100 minutes                                | 80 minimum       |
| CO <sub>2</sub> 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<sub>o</sub>C