OC LUGO CO. INC.



**Product:** **Intersorb 8 to 12 mesh Indicating and Non-indicating soda lime Grade D**

**Description:**

Product name:
Intersorb 812 NI (non-indicating)
Intersorb 812 WV (indicating)

Intersorb 812 Granules

**Properties:**

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 rebreathers.

Intersorb 812 has been tested to NATO test standard STANAG No 1411.

**Application / Use:**

Rebreather, Recreation Rebreather Diving, Commercial Diving, Military, Mine Safety Equipment.

**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 will additonally contain 14% to 18% water.

Physical properties: **NATO test standard STANAG No 1411**

| Particle Size | Intersorb 812 NI and WV Typical data | Specification |
|---|---|---|
| **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 % |



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

| **Particle Size** | **Intersorb 812 NI and WV Typical data** | **Specification** |
|---|---|---|
| **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<br>1.6 mbar used | |
| **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$^{o}$C