



INTERSORB® 812 — Comparison Test Data

8-12 Mesh Indicating + Non-Indicating Soda Lime Comparison with Sofnolime 797

Tests

NATO test standard STANAG No 1411
European standard 14143

Intersorb® 812 is comprised of 3 mm cylindrical granules. It has been developed specifically for use in saturation diving systems and other industrial applications, where humidity levels can be significantly lower than in personal protection closed circuit applications.

In these applications, Intersorb® shows a significant increase in CO₂ absorption capacity, compared with Sofnolime 797.



Comparison Test Data

Physical Properties: NATO test standard STANAG No 1411

Particle Size	Intersorb® 812 NI + WV	Sofnolime 797	Specification
Over 2.80 mm	0.6%	0.2%	Max 1%
2.00 to 2.80 mm	25%	19%	Max 30%
1.4 to 2.0 mm	Balance	Balance	Balance
0.600 to 1.40 mm	6%	12%	Max 20%
under 0.600 mm	0.5%	0.9%	Max 1%
Moisture Content	16%	18%	14% to 20%
Hardness (% retained on 1.4 mm screen)	87%	85%	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	1.5 mbar unused 1.6 mbar used	

Carbon Dioxide Absorption: European standard 14143

Time to 0.5% CO ₂ breakthrough	365 minutes	355 minutes
Time to 1% CO ₂ breakthrough	392 minutes	378 minutes
CO ₂ Capacity	150 kg/L	237 L/kg

Comparison Test Data

Carbon Dioxide Absorption: European standard 14143, continued.

Particle Size	Intersorb® 812 NI + WV	Sofnolime 797
pH of Drain Water after Test	8	8
Absorbent Volume	3 Litres	
Challenge Gas	40 x 1 Litre breaths per minute containing 1.6 L/min CO ₂	
Humidity	80 - 90%	
Temperature	32°C	
Pressure	Atmospheric	

Test Date

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