



Product Nomenclature: SPHERASORB 408 (Soda Lime)

Description:

Spherasorb 408 is a spherical shaped Soda Lime, available as NI (non-indicating) or WV (indicating). Soda Lime's efficiency at removing Carbon Dioxide from air, leaving Oxygen behind, makes it a vital part of CO₂ Scrubbers and rebreathing systems.



Spherasorb 408

Application / Use:

Military, Diving, and Medical applications (Conditions where keeping air breathable when circulation with outside air is impossible).

Properties:

Spherasorb 408 is comprised of 3 mm cylindrical granules, produced to achieve maximum CO₂ absorption. The combination of the spherical shape and particle size (4 to 8 mesh) leads to good packing within scrubbers and rebreathers, generating very low dust levels and relatively low breathing resistance. Spherasorb 408 has been tested to, and conforms to, the STANAG 1411 and EN14143 standards for rebreathers.

Specifications:

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 2.5 mm 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	



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Specifications:

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 contain 14 – 18 % water.

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 degrees C.

Packaging Transportation & Disposal:

Spherasorb 408 is available in 45 pound airtight kegs. Standard shipping applies. Dispose of in accordance with local, state, and federal regulations.

Storage & Handling:

Store in a dry, well ventilated area away from incompatible substances, such as strong acids. Avoid excessive temperatures. Keep container tightly sealed. Do not leave absorbent exposed to air for prolonged periods. Dust may cause irritation. Avoid breathing dust. Avoid contact with eyes. Wash hands and contact area after handling.

Precautions:

Irritating to eyes, respiratory system and skin (see handling above).

Warranty:

The O.C. Lugo Co., Inc. will replace any material found to be defective, but accepts no liability through improper storage, handling or application of this product.

Disclaimer:

All data provided herein is based upon years of research, laboratory testing and actual product usage. The O.C. Lugo Co., Inc. makes no representations or warranties of any kind concerning this information.