

Engineered Syntactic Systems SF-22 Subsea Macrosphere Syntactic Void Filler

Category : Polymer , Thermoset , Epoxy

Material Notes:

In applications where density is critical, the four part SF-22 kit is used. This system utilizes fiber reinforced epoxy microspheres in combination with the standard microsphere syntactic to provide the lowest density possible in void filling, yielding a greater than 60% increase in buoyancy per cubic foot. In this system, cavities are pre-filled with the ~ 0.625 inch diameter microspheres, specially fabricated to withstand the operating hydrostatic pressure of the vessel. The liquid syntactic is then injected into the cavities around the microspheres and allowed to cure at room temperature. The resultant low-density system will provide an average of 42 pounds of buoyancy per cubic foot of void space.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Engineered-Syntactic-Systems-SF-22-Subsea-Macrosphere-Syntactic-Void-Filler.php

Physical Properties	Metric	English	Comments
Density	<= 0.352 g/cc	<= 0.0127 lb/in ³	
Water Absorption	<= 3.0 % @Time 86400 sec	<= 3.0 % @Time 24.0 hour	at 600 ft.depth

Mechanical Properties	Metric	English	Comments
Compressive Strength	>= 11.0 MPa	>= 1600 psi	
Compressive Modulus	>= 0.448 GPa	>= 65.0 ksi	
Hydrostatic Design Basis	8.14 MPa	1180 psi	Hydrostatic Crush Strength (2680 feet)

Descriptive Properties	Value	Comments
Color	White/Tan	
Service Depth (feet)	600	

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