

## Engineered Syntactic Systems SF-25 Subsea Macrosphere Syntactic Void Filler

Category : Polymer , Thermoset , Epoxy

**Material Notes:**

The four part SF-25 kit was developed specifically to meet the critical needs of void space filling at operating pressures to 1000 psi. This system utilizes carbon fiber reinforced epoxy macrospheres in combination with the standard microsphere syntactic to provide low density 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 macrospheres, specially fabricated to withstand the operating hydrostatic pressure of the vessel. The liquid syntactic is then injected into the cavities around the macrospheres and allowed to cure at room temperature. The resultant low-density system will provide an average of 39 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-25-Subsea-Macrosphere-Syntactic-Void-Filler.php](http://www.lookpolymers.com/polymer_Engineered-Syntactic-Systems-SF-25-Subsea-Macrosphere-Syntactic-Void-Filler.php)

Physical Properties	Metric	English	Comments
Density	<= 0.400 g/cc	<= 0.0145 lb/in <sup>3</sup>	
Water Absorption	<= 3.0 % @Time 86400 sec	<= 3.0 % @Time 24.0 hour	at 2272 ft.depth

Mechanical Properties	Metric	English	Comments
Compressive Strength	>= 17.2 MPa	>= 2500 psi	
Compressive Modulus	>= 0.827 GPa	>= 120 ksi	
Hydrostatic Design Basis	27.6 MPa	4000 psi	Hydrostatic Crush Strength (9090 feet)

Descriptive Properties	Value	Comments
Color	White/Tan	
Service Depth (feet)	2272	

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