

SYNFOAM[®] SG Castable Syntactic Foam for Complex Shapes

Typical Properties:

Property	Units	SG-25	SG-30	SG-35	SG-40	SG-45
Density	pcf (± 2)	25	30	35	40	45
Compressive Strength	psi	2,500	3,500	5,000	6,200	8,500
Compressive Modulus	psi	80,000	120,000	150,000	180,000	200,000
Depth Rating	meters (feet)	1,000 (3,280)	1,500 (4,920)	2,000 (6,560)	3,000 (9,850)	4,000 (13,100)

Product Description:

SynFoam cast-in-place grades are a cost effective, castable syntactic foam providing low density and moderate strength. It is suitable for numerous marine and aerospace applications where machining of parts is either impractical or too expensive. SynFoam cast-in-place grades are shipped as 2 components which, when mixed together, can be either cast in place or poured into complex molds. SynFoam SG has been used for numerous underwater robotics applications

Application Suggestions:

SynFoam SG is primarily used to provide cost effective buoyancy for underwater ROV's and similar products. SG grade syntactic has been used to manufacture tags and sensors for the tracking of aquatic wildlife and is a good choice for use with underwater electronic components. SynFoam SG can be used for syntactic field repair. SynFoam SG exhibits extremely low shrinkage and offers high adhesion to most substrates. Cure is achieved within 24 hours and full properties will be realized after 7 days at room temperature. Densities are customized to the user's specifications.

Quality Statement:

SynFoam has a full testing lab for both new product R&D and Quality Assurance to measure our foam's structural properties. We work hard to exceed each customers' performance and delivery requirements. Adherence to production SOPs enable each product to be made with batch to batch reproducibility. We can machine our products to customer specifications and provide a marine quality finish as needed. We work closely with customers to select the proper grade for a successful and reliable implementation in each end use application. Customer references are available upon request.

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