

# SynFoam DW Deep Water Syntactic Foam

## TYPICAL PROPERTIES for DW Grades

Property	Units	DW-31	DW-33	DW-35	DW-37	DW-39	DW-41
Density	PCF(± 2)	31	33	35	37	39	41
Compressive Strength	psi	8,500	9,800	11,500	12,800	14,500	16,800
Compressive Modulus	psi	260,000	310,000	250,000	280,000	320,000	330,000
Depth Rating	meters	5,330	6,250	7,680	8,690	11,730	12,500
Depth Rating	feet	17,500	20,500	25,200	28,500	38,500	41,000
Service Pressure	psi	7,960	9,340	11,470	12,980	17,520	18,670
Sound Velocity	m/s	2,500	2,600	2,650	2,700	2,800	2,900

## DESCRIPTION

SynFoam DW is a high performance syntactic foam designed for the most critical deep water applications. The high strength to weight ratio provides for maximum reduction in weight for deep water exploration. SynFoam DW has been effectively used for 5K and 6K ROV's as well as other deep water submersibles. SynFoam DW is available as 5" x 12" x 12" fully cured blocks. A team of experienced molders ensures the highest possible performance of syntactic foams at densities above 20 pcf. The blocks may be further machined into different sizes and shapes by the end user to meet the necessary specific tolerances and requirements. Our syntactic foam is easily bonded together with the use of our syntactic adhesive to form large structures.

## APPLICATION SUGGESTIONS

SynFoam DW is ideal for use in applications that require increased buoyancy or improved safety factors for critical deep water missions. SynFoam DW is designed to resist water absorption and provide excellent performance for deep water submersion in both manned and unmanned vehicles. Densities can be 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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