

Proven Performance

MacroFoam is a specially engineered, high quality macrosphere syntactic foam designed to meet the requirements of a variety of subsea and oceanographic applications. MacroFoam products integrate fiber reinforced spheres into the standard syntactic structure, which produce a unique new set of properties. These properties allow for the attainment of lower densities in some applications as well as the fabrication of larger standard sizes and custom structures. Additionally, the inclusion of the fiber reinforced macrospheres into the syntactic system generally equates to lower cost buoyancy for a given depth.

Due to the nature of the constituent materials, the density, strength and stiffness of MacroFoam may be tailored to meet the specific requirements of the end user's application, providing greater flexibility for challenging designs.

Sheet Size

MacroFoam is offered in standard off-the-shelf sheets of 24" x 60" (610 x 1,524 mm). Customer specified sizes and cast contoured shapes are also available.

4"x 24"x 48" 102 x 610 x 1,219 mm
6"x 24"x 48" 152 x 610 x 1,219 mm

Product Availability

MacroFoam is offered in a range of "standard" densities as well as specialty grades. Cast as single units, MacroFoam is available as sheets or near-net shape or finished geometries. Sheets come standard with planed surfaces with the cut spheres exposed, but integral skins of random glass mats may also be molded into the surface.

Sheets or trimmed parts may be bonded together to form larger structures or machined to final shape. Both planed and machined surfaces are designed to resist water ingress even with direct exposure.

Industry Applications

Although these versatile syntactic materials may be used for a variety of subsea and oceanographic projects, they are predominantly used for traditional floatation applications such as buoys, cable floats, diving floatation and instrumentation support. Ultra-durable MacroFoam provides the ideal solution when reliable performance, larger or custom sized structures or cost-effective buoyancy is required for successful operation.

Highlights

- Operational Depth Range (Surface - 1,000 Meters)
- Lowest Density Available in the Entire Industry
- Larger Sizes and Custom Structures
- Low Water Absorption at Depth
- Range of Densities and Grades