



# MZ Grade

## Microsphere Syntactic Foam

# Technical Data Sheet

### Highlights

- **Operational Depth Range (Surface - 1 000 Meters)**
- **Lowest Density Available in the Entire Industry**
- **Reliable, Cost-effective Performance**
- **High Compressive and Hydrostatic Strength**
- **Standard Forms and Customization Options**
- **Low Water Absorption**

### Premium Performance

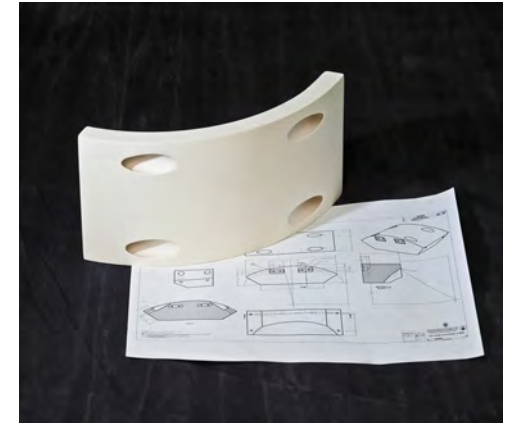
MZ Grade premium syntactic foams safely operate in the oceans Mesopelagic Zone, at depths ranging from the surface down to 1 000 meters. Fabricated with advanced microsphere technology, these homogenous materials offer both low density and lower cost considerations.

### Industry Applications

These workhorse foams have been thoroughly tested and have a proven track record throughout their long service history. MZ Grade foams are safe, reliable, cost-effective buoyancy for the relatively shallow requirements of oceanographic applications such as mammal tags for whale tracking.

### Product Availability

MZ Grade syntactic foams are available in block form and may be readily used for customer assembly or cut to fit application requirements. Blocks or trimmed parts may also be bonded together to form larger structures. Standard block sizes are 6" x 12" x 12" or 6" x 12" x 24". Custom sizes and shapes are available upon request.



### Typical Properties

Product	Density	Service		Weight Gain	Hydrostatic Crush	Compressive	
		Pressure	Depth			Strength	Modulus
	lb/ft <sup>3</sup> (g/cc)	psi (Bar)	feet (meters)	24 hrs @ depth	psi (Bar)	psi (MPa)	ksi (GPa)
MZ - 24	24 ± 2 (0.38 ± .03)	1 450 (100)	3 280 (1 000)	2% Max	3 800 (262)	3 200 (22.1)	145 (1.0)
MZ - 38	38 ± 2 (0.61 ± .03)	1 450 (100)	3 280 (1 000)	2% Max	6 000 (414)	4 320 (29.8)	195 (1.34)