



Microsphere Syntactic Foam

Suitable Performance

The SF Grade of syntactic material was designed as a cost-effective option for applications where the absolute lowest density is not critical. With a higher allowable density, SF can provide excellent long-term performance at depths where volume is not limited. The family of product may also be cast into finished configurations and geometries to improve material usage and reduce expensive yield losses due to machining.



Product Availability

SF Grade is manufactured as 6.0" x 12 x 24 blocks (150 x 305 x 610mm) and is generally available for customer installation. Custom sizes and coatings are available upon request. In some applications the materials may be cast directly to final shape.

Highlights

- Operational Depth Range (Down to 6 000 Meters)
- Provided in economically-designed density range
- Premium Performance for Deep-Water Apps.
- Can be easily machined to shape & drilled for inserts or attachments
- Standard Forms and Customization Options

Grade	Typical Properties				Uniaxial Compressive		Flex	
	Density	Depth Rating	Hydrostatic Crush	24hr Hydrostatic Performance @1.1 x depth rating	Strength	Modulus	Strength	Modulus
	lb/ft ³ (kg/m ³)	ft (m)	psi (Bar)	% weight gain	psi (MPa)	ksi (GPa)	psi (MPa)	ksi (GPa)
SF 1 500	35.0 (560)	4 920 (1 500)	4 920 (1 500)	< 1%	2 685 (19.8)	115 (0.79)	4 390 (30.3)	412 (2.84)
SF 2 000	36.0 (580)	6 560 (2 000)	5 425 (374)	< 1%	3 150 (21.7)	138 (0.95)	4 525 (31.2)	419 (2.89)
SF 3 000	39.0 (630)	9 840 (3 000)	7 750 (534)	< 1%	4 320 (29.8)	261 (1.80)	4 920 (33.9)	441 (3.04)
SF 4 000	43.0 (690)	13 120 (4 000)	9 880 (681)	< 1%	5 275 (36.4)	310 (2.14)	5 455 (37.6)	469 (3.23)
SF 6 000	450 (735)	19 680 (6 000)	13 125 (905)	< 1%	6 700 (46.2)	498 (3.43)	5 860 (40.4)	490 (3.38)