

## MICROSPHERE SYNTACTIC VOID FILLER KIT

### Proven Performance

SF - 38 is a high performance syntactic kit designed to meet the needs of subsea void filling applications. This easily cast, three-part system cures at room temperature to form a solid syntactic material. The cured material provides an average of 26 lbs of buoyancy per ft<sup>3</sup> and will withstand repeated ocean excursions to depths of 1,200 meters.

SF - 38 kits are made up of the following three components:

#### ► Part A: Base Epoxy Resin

A low viscosity epoxy resin provides ease in mixing and high compressive strength for performance in use.

#### ► Part B: Curing Agent

A low viscosity reactive polyamide curing agent that cures at low to moderate temperatures with a workable pot-life and exotherm.

#### ► Part C: Hollow Glass Spheres

Free-flowing hollow spheres that are the key to the syntactic materials subsea performance. The bubbles provide the low density and hydrostatic performance necessary for the foam system.

# SF-38

## HIGHLIGHTS

- **Operational Depth Range: Surface - 1,200 Meters**
- **Lowest Density Available in Entire Industry**
- **High Compressive Strength**
- **Cures at Room Temperature**
- **Simple Shipyard-Based Install**



## PRODUCT INSTALLATION

This moderate viscosity system is installed by mixing together the two resin components followed by the glass bubble filler. Once the mixture is uniform, it may be pour into any free-flood cavity or void. The initial cure will occur over a twenty-four hour period at ambient temperatures. At this point the solid, lightweight article is ready for any secondary operation such as machining, finishing or painting. Full cure will take place after 7 - 10 days.

## PRODUCT STORAGE

Store SF - 38 components in a dry area. Storage temperatures should be between 45°F - 100°F. Do not allow the res-ins to freeze or the glass filler to absorb moisture. Always close the containers after use.

## PRODUCT SAFETY

Do not use or handle this product until the Material Safety Data Sheet and Product Mixing Guide have been read and understood.

## TYPICAL PROPERTIES

Color	Density lb/ft <sup>3</sup> (g/cc)	Compressive Strength psi (MPa)	Compressive Modulus ksi (GPa)	Weight Gain 24h @ depth	Hydrostatic Crush psi (bar)	Shelf Life
White / Tan	38 (.61)	4,200 (29.0)	190 (1.31)	3% Max	5,300 (365.4) 12,000 feet	2 years