Trelleborg Applied Technologies manufactures a range of high performance, low density syntactic foam for deep sea buoyancy applications.

These composite foams provide ultra low densities by selecting only the highest specification hollow glass microspheres, called Eccospheres®, and combining them within a rigid, high strength resin system. The syntactic foam is typically cast into blocks and then is used to prepare large buoyancy modules that can be readily shaped to conform to hull contours and outfitted for installation in the forward and aft free-flood areas of submarines.

Oceanographers also depend on syntactic foams to suspend instrumentation in deep ocean studies. For these applications, the syntactic foam is used in either block form or custom molded shapes for installation in manned and unmanned submersibles such as the legendary Alvin and Jason vehicles that were used to discover and explore the Titanic.

Trelleborg Applied Technologies produces various grades of syntactic foams, called Eccofloat®, to meet our customers broad range of requirements.

**TG Grade** syntactic foams are lightweight and economical for building manned and remote operating vehicles. The foams are also used to manufacture mine neutralization systems because of their zero magnetic and sea-water comparable acoustic signatures.

Applications include hydroplanes, rudders, trim adjustment modules for submarines and specialized applications such as acoustic windows due to the material profile and ability to significantly improve sonar functions.

**EL Grade** epoxy syntactic foams are the material of choice for manufacturing manned and unmanned submersibles because of their density range and ability to withstand exposure to diesel fuels and hydraulic fluids.

**DS Grade** syntactic foams combine lightweight glass Eccospheres® with multifunctional epoxy resin to produce ultra-high strength-to-weight materials for high-performance, deep sea applications including manned and unmanned submersibles.
Eccofloat® Product Sizes

Eccofloat® TG and EL Grades are available in the following dimensions:

- 6 x 12 x 12 in (152.4 x 304.8 x 304.8 mm)
- 6 x 12 x 24 in (152.4 x 304.8 x 609.6 mm)
- 6 x 19.5 x 29.5 in (150 x 500 x 750 mm)

Eccofloat® DS Grade is available in the following dimensions:

- 4 x 12 x 18 in (101.6 x 304.8 x 457.2 mm)

Certifications

Trelleborg Applied Technologies is ISO 9001 certified.

Contact Us

Trelleborg’s Applied Technologies division is an industry expert in delivering innovative and reliable solutions that maximize performance for our customers. Our vast range of specialized, customizable materials ensure peace of mind at every stage of your project. With reliable and efficient project management and manufacturing we endeavor to take performance to new levels by achieving your goals safely, on time and within scope.

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