



ATLAS FOR MARINE INDUSTRY

SOTECO supplies a new type of rigid foams, consisting of thermosetting polymers suitable for sandwich cores.

The chemical structure and physical properties make those foams different from all materials that are available on the market today.

Proprietary formulations are utilized by SO.TE.CO S.p.A. coming from intensive research activity that has been carried on with a major commitment to overcoming some application constraints showed by commonly used materials.

ATLAS NTC is a special product from **SOTECO FOAM** range that has been conceived to meet technical requirements for structural materials in the field of boat construction.

It is a closed cell structure, has a very good thermal stability and low thermal conductivity, can be machined with normal tools, and has a wide compatibility with all resins that are commonly employed in composites manufacturing.

FENIX, another foam available from SOTECO, is recommended for all marine applications Where IMO Fire Class Requirements are to be met.

It is characterized by a very low flammability and, what is still more outstanding, by the emission of fumes with very low density and toxicity when exposed to a flame.

“SO.TE.CO. S.p.A.” can supply its foams backed by a complete technical support on application requirements.



Advantages

- » Higher Resistance to Styrene than PVC foams
- » Lower Resin Uptake than other foams normally used for Marine applications
- » Compatibility with the most popular types of resin
- » Total suitability for Infusion



Most important properties

- » Wide range of densities starting from 60 kg/m³
- » Very low water absorption
- » No outgassing hazard
 - » polymerisation reactions are relatively fast for our type of foams, curing takes place at ambient conditions within fixed times and no secondary reactions can cause gaseous substances to be developed
- » Good thermal stability
- » High ductility and damage tolerance
- » Very high thermal insulation efficiency
- » Resistance to sea water corrosion
- » No chlorine content



Product supply

SOTECO FOAM can be supplied in blocks or calibrated sheets.

Plain or tailor machined sheets, including grooved and perforated types for any lamination process, scrim cloth sheets or special design kits, are available to customers' requests.

Standard sizes:

- Length 2400 mm
- Width 1200 mm
- Sheet thickness from 6 to 200 mm

Other sizes available upon request

July, 2011