



MARINE

For Marine applications our reinforcements and intermediates reduce weight without sacrificing strength. The next generation of yachts, cruisers and racing vessels will be lighter and stronger when made with carbon fiber composites. Tough, durable carbon composite material stands up to the extremes of marine environments. The high specific stiffness of carbon fiber lends itself well to use in applications such as masts, hulls and propellers.

While HCS produces a wide range of standard E-glass and carbon reinforcements, it is by working closely with our customers and understanding their specific requirements, that we are able to engineer and produce materials that are tailored specifically for their applications and processes - be it wet lay up or infusion, and with epoxy or polyester / vinylester resins systems.

HCS's continuous filament reinforcements are used in structures such as masts, tillers and oars. Our HinLam range of pultruded profiles can be used to create tubular structures for these applications. Carbon fiber composites offer weight savings, increased stiffness and improved fatigue resistance when compared to traditional aluminum masts.

UD fabric can be used to produce carbon fiber composite parts including hulls and decks for marine vessels. Hybrid fabrics comprising of combinations like carbon/glass, carbon/innegra and glass/aramid provide the added advantages of both constituent fibers giving stiffness along with environmental protection and cost benefit.

Our HinPreg® range of prepreg offers an efficient way to build parts for composite watercraft. Pre-impregnated carbon fiber fabric layers are easily molded and cured to produce lightweight, strong parts including hull and deck sections and accessory parts. Often, prepreg is used as the skin layer of the composite with foam or honeycomb cores inside to further reduce weight.

Our HinFix® (Heat Set) and HinForm® (Bonded/Weave Stabilized) range of products provide great assistance in handling and performing of intermediates for complex shapes and curvatures used in marine applications.