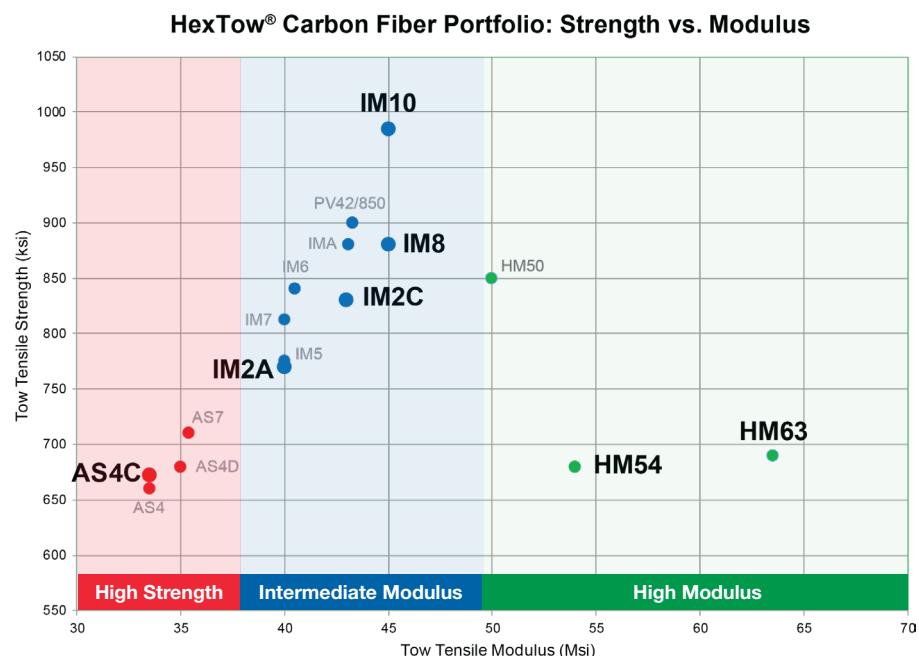




HexTow® Carbon Fiber for Marine Applications

Hexcel manufactures a full range of high strength, intermediate modulus and high modulus carbon fibers from its own polyacrylonitrile precursor (PAN). Hexcel HexTow® carbon fibers are used for prepreg and infusion for boat hulls, masts, rudders, rigging and reinforcing sails.

HexTow® intermediate modulus carbon fibers provide high tensile strength and modulus, as well as good shear strength, allowing structural designers to achieve higher safety margins for both stiffness and strength critical applications. HexTow® IM2C is the highest modulus fiber to meet, yet not exceed, the rigorous criteria of Americas Cup regulations. Hexcel HexTow® IM8 carbon fiber has been selected as the highest performing industrial carbon fiber on the



market and will be used by rigging manufacturer Future Fibres to manufacture their AEROrazr solid carbon rigging for all the teams in the 36th America's Cup.

Hexcel also provides a range of high modulus fibers which add an exceptional level of stiffness to marine structures.

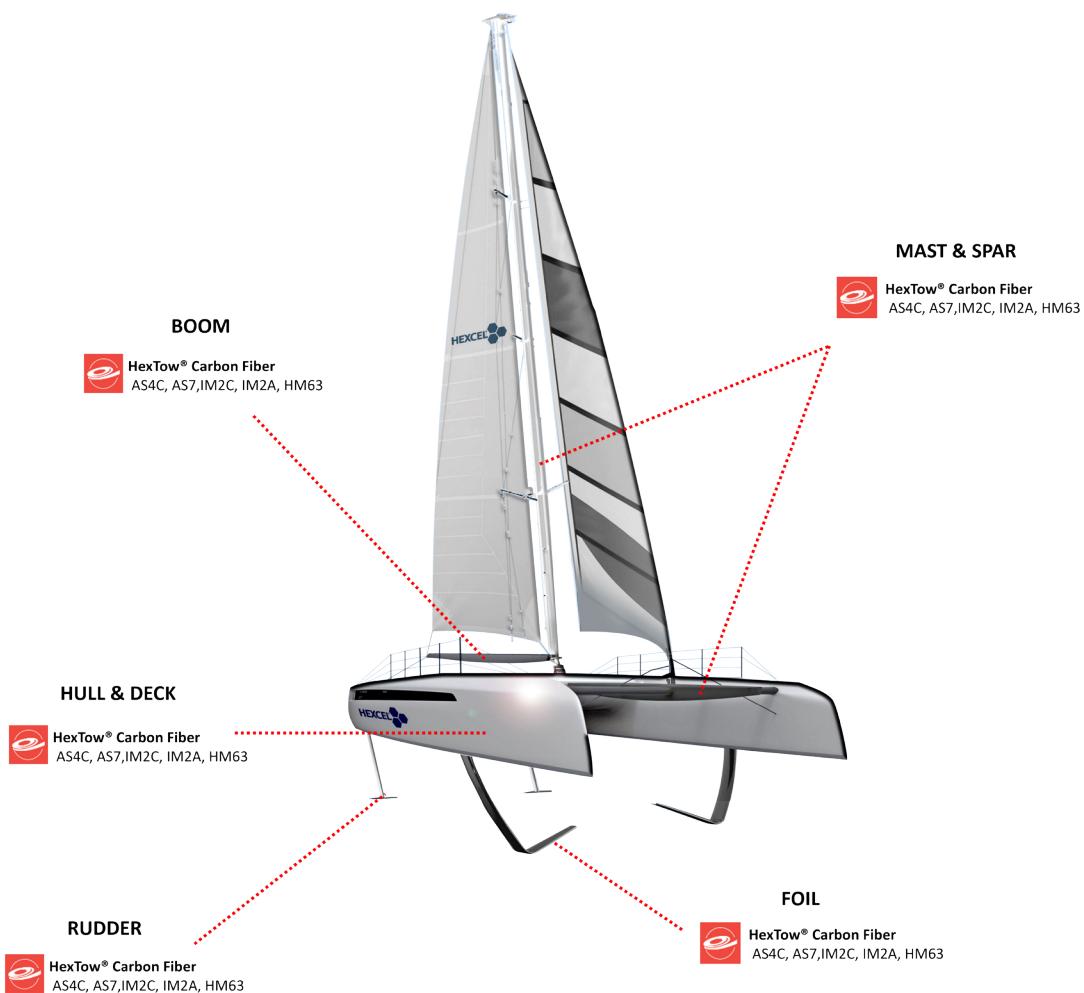
HexTow® HM63 has the highest tensile strength of any high modulus fiber and provides outstanding translation of fiber properties in a composite, including superior interlaminar shear and compression shear strength.



Typical HexTow® Carbon Fibers for Marine Applications

Fiber Type	Number of Filaments	Tensile Strength		Tensile Modulus*		Strain**	Weight/Length	Density
		(ksi)	(MPa)	(Msi)	(GPa)			
AS4C	3000	685	4723	33.5	231	1.8	0.200	1.78
	6000	670	4619	33.5	231	1.7	0.400	1.78
	12000	660	4550	33.5	231	1.8	0.800	1.78
IM2A	12000	770	5309	40.0	276	1.7	0.446	1.78
IM2C	12000	830	5723	43.0	296	1.8	0.446	1.78
IM8	12000	880	6067	44.3	305	1.8	0.446	1.79
IM10	12000	985	6791	45.0	310	2.0	0.324	1.79
HM54	12000	680	4688	54.0	372	1.2	0.423	1.76
HM63	12000	690	4754	63.5	438	1.0	0.420	1.84

Refer to specific product data sheets for more details on each product. * Tensile Modulus Calculated as Chord (6000 - 1000) ** Strain at Failure



For U.S. quotes, orders and product information call toll-free 1-866-556-2662 or 1-800-688-7734. For other worldwide sales office telephone numbers and a full address list, please go to: <http://www.hexcel.com/contact>

www.hexcel.com

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