

Texteel 12x12 Strand HMPE

Texteel 12x12 is a 12-strand braided rope in which each of the 12 strands is, in turn, a 12-strand rope, or braided primary strand.

Texteel is manufactured from High Modulus Polyethylene (HMPE) and is designed to meet the need for high load applications where exceptionally low weight and flexibility are required in a cost driven environment.

Texteel has a specially formulated coating system to maintain flexibility for ease of handling and inspections, whilst not compromising on strength or durability. Texteel is resistant to kinking, maintains strength around tight bend radius and has low recoil making it safer than traditional steel rigging products.

The 12x12 construction optimises the ropes durability for demanding applications such as tug and barge towing and mooring lines. This design has long lay lengths, making the rope more flexible for bending applications, easy for inspection and handing, and can be quickly spliced using standard 12 strand splicing techniques.

Texteel has the added benefit of being a Meg4 compliant product and can be produced with class certification upon request

Features

- 12x12 construction for higher abrasion resistance
- Repairable primary strands
- Highest strength to weight ratio of any fibre
- Low Creep
- Class and Meg4 certification available upon request
- High UV & Chemical Resistance
- Safer than wire
- Very low elongation
- Easy to splice

Nominal Diameter		Size Circ.	Approximate Weight	Minimum Tensile Strength Spliced	Minimum Tensile Strength ISO Unspliced
Inch	MM	Inches	Kg/ 100m	Tonnes (Te)	Tonnes (Te)
1 5/8"	40	5"	92	111.0	122.1
1 3/4"	44	5 1/2"	108	137.0	150.7
2"	48	6"	148	174.0	191.4
2 1/8"	52	6 1/2"	172	202.0	222.2
2 1/4"	56	7"	215	251.0	276.1
2 1/2"	60	7 1/2"	221	257.0	282.7
2 5/8"	64	8"	246	284.0	312.4
2 3/4"	68	8 1/2"	271	311.0	342.1
3"	72	9"	320	365.0	401.5
3 1/8"	76	9 1/2"	345	392.0	431.2
3 1/4"	80	10"	369	417.0	458.7
3 1/2"	84	10 1/2"	461	519.0	570.9
3 5/8"	88	11"	492	550.0	605.0
4"	96	12"	575	636.0	699.6

*Other diameters available on request

Technical Information

Specific gravity	.97*
Melting point	140°C
Critical temp.	70°C
Elongation at break	3.8%
Coefficient of friction	0.09-0.12*
Floats/Sinks	floats
UV resistance	good
Wet abrasion	superior
Dry abrasion	superior

* value based on data supplied by the fibre manufacturer for new, dry fibre

Texteel 12x12 Elongation (%)

