Technora® 12 Strand

Technora® 12 Strand is made with high strength light weight Technora fiber. The 12 strand braided construction is torque free, and easy to splice. Technora 12 is extremely heat and flex fatigue resistant. It has no creep making it a good choice for applications with high static loads including mooring cables, hoisting cables, and tower guy wires. Technora 12 Strand is delivered standard with a black polyurethane coating.

Features & Benefits

- · Very high heat resistance
- · Zero creep
- · Very low stretch
- · Very high strength
- Soft hand
- Torque free
- · Easy splicing

Applications

- · Theatrical rigging lines
- · Utility winch and pulling lines
- · Recreational vehicle winch lines
- · Tower guy wires

Nominal Diameter		Size (circ	Approximate Weight		Minimum Tensile Strength Spliced Rope		Minimum Tensile Strength ISO Unspliced Rope	
inch	mm	in.)	lbs/ 100ft	kg/ 100m	lbs	MT (tonnes)	lbs	MT (tonnes)
1/8	3	3/8	0.6	0.9	2,520	1.1	2,800	1.3
3/16	5	9/16	1.3	1.9	5,040	2.3	5,600	2.5
1/4	6	3/4	1.9	2.8	7,335	3.3	8,200	3.7
5/16	8	15/16	3.2	4.8	11,700	5.3	13,000	5.9
3/8	9	1-1/8	4.3	6.4	16,200	7.4	18,000	8.2
7/16	11	1-1/4	6.7	10	25,200	11.4	28,000	12.7
1/2	12	1-1/2	8.3	12.4	29,700	13.5	33,000	15.0
5/8	16	1-3/4	13.5	20.1	45,000	20.4	50,000	22.7
3/4	18	2-1/4	19.3	28.7	59,000	26.8	65,600	29.8
7/8	22	2-3/4	25.3	37.7	76,000	34.5	84,400	38.3
1	24	3	31.1	46.3	92,000	41.7	102,200	46.4
1-1/8	28	3-1/2	42.3	63	123,000	55.8	136,700	62.0
1-1/4	30	3-3/4	48.1	71.6	139,400	63.2	154,900	70.3

Sizes available up to 8-1/4" diameter (200 mm) and 4,900,000 lbs strength. Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d²) plus 4%. See reverse side for application and safety information.

Technical Information

Specific gravity

Thermal decomposition

932°F (500°C)

Elongation at break
Fiber water absorption

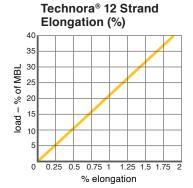
UV resistance

Woderate

Abrasion resistance

good

^{*} value based on data supplied by the fiber manufacturer for new, dry fiber



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Rope Specifications

Minimum Tensile Strength Minimum tensile strengths shown are for new (unused) rope and will decrease after use. All tests are performed in accordance with Cordage Institute Standard CI 1500-2. The rope strength will be reduced after use due to heat, abrasion, ultraviolet or chemical exposure. The tensile strengths may be further reduced by up to 50% as a result of knots or kinks. Minimum tensile strengths are defined as two standard deviations (typical about 10%) below the average.

Maximum Working Loads Maximum working loads are determined by dividing the tensile strength by the safety factor. The safety factor is a function of the physical properties of the rope, the age and history of the rope, the type of service it will be subjected to and the risks involved if failure occurs. For a rope manufacturer to give blanket working load recommendations would be like a car manufacturer giving the "safe driving speed" of their cars. Obviously the conditions of use far outweigh the design characteristics of the rope. Typically safety factors vary from 3:1 (for new rope used in applications with uniform loading and where failure would cause little or no risk to equipment or personnel) to 20:1 (for conditions involving moderate shock loading, possibility of snags or kinks or where failure could cause severe risk to equipment or personnel).

Rope Weights Rope weights shown are average and may vary plus or minus 5%.

Working Elongation Working elongation is shown from a preload tension of 200 times the diameter squared per the Cordage Institute Standard.

Special Requirements

Factory Splicing Various types are available for all of our ropes. Splices can be provided with various types of chafe protection or coatings.

Custom Lengths Special constructions are available on request.

Rope Terminations Custom terminations such as thimbles, links, rings and custom hardware can be provided. Terminations are available in plastic, bronze, stainless steel and galvanized steel. Please call, or email your requirements to support@ravenox.com for a quotation.

Special Coatings Coatings such as polyurethane, polyethylene and vinylesters may be applied to any of the synthetic ropes to improve snag resistance, sunlight resistance or for color coding. Ropes are available with a variety of finishes to meet your needs.

Commercial and Military Specifications Certificates of compliance are supplied at no charge if requested when placing the order. Certified test reports can be provided at an additional charge when requested at the time of the order.

Returned Goods Subject to a minimum 20% restocking charge upon inspection. No returns will be accepted without prior authorization.