



SUPERTUF™ AQUA

Supertuf™ Aqua ropes are manufactured from a high-quality polyethylene, polypropylene (PE/PP) blend. Designed as an ideal aquaculture (fish farming) rope, they offer a good strength-to-weight ratio, float on water, and do not absorb moisture. They also feature good resistance to abrasion and chemicals, ensuring durability in demanding marine environments.

Supertuf Aqua ropes are easily spliced using a standard tuck splice.

Features & Benefits

- Floats
- Good strength-to-weight
- Easy splicing

Applications

- Aquaculture (fish farming)

Technical Information

Specific gravity	0.94
Melting point	165°C (329°F)
Water absorption	0-1%
Elongation at break	15-18%
UV resistance	good
Abrasion resistance	good
Chemical resistance	good

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

Nominal Diameter	Size (circ in.)	Approximate Weight		Minimum Tensile Strength Spliced Rope		Minimum Tensile Strength ISO Unspliced Rope	
		lbs/ 100 ft	kgs/ 100 m	lbs	MT (tonnes)	lbs	MT (tonnes)
mm							
3-Strand							
10	1-1/8	3.0	4.5	4385	2.0	4872	2.21
12	1-1/2	4.4	6.6	6409	2.9	7121	3.23
16	2	7.8	11.6	10764	4.9	11960	5.425
20	2-1/2	12.0	17.9	16369	7.4	18188	8.25
24	3	17.5	26.0	23512	10.7	26125	11.85
36	4-1/2	39.0	58.0	48413	22.0	53793	24.4
48	6	69.9	104.0	84724	38.4	94137	42.7
56	7	95.4	142.0	110716	50.2	123018	55.8
8-Strand							
24	1	19.4	28.8	26786	12.2	29762	13.5
28	1-1/8	26.5	39.4	35715	16.2	39683	18.0
32	1-1/4	34.3	51.1	45635	20.7	50706	23.0
36	1-1/2	43.1	64.1	56548	25.7	62831	28.5
40	1-5/8	53.2	79.1	69445	31.5	77161	35.0
48	2	76.9	114.5	97223	44.1	108025	49.0
56	2-5/16	104.8	156.0	128969	58.5	143299	65.0
68	2-7/8	154.6	230.0	190477	86.4	211642	96.0
72	3	173.4	258.0	209327	95.0	232585	105.5
88	3-5/8	259.4	386.0	311510	141.3	346122	157.0
96	4	308.4	459.0	367066	166.5	407851	185.0

SUPERTUF™ AQUA

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 1500-02. 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 Cortland International can provide custom terminations such as thimbles, links, rings and custom hardware. Terminations are available in plastic, bronze, stainless steel and galvanized steel. Please call, or email your requirements to contact@cortlandinternational.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. Cortland can provide ropes 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.