Aracom 100

Aracom 100 is a 12-strand rope comprised of 100% Technora® Aramid fiber. Teijin's Technora® Aramid is selected for this rope due to its ease of handling and reduced internal yarn-on-yarn friction, which greatly increases this Aramid's longevity.

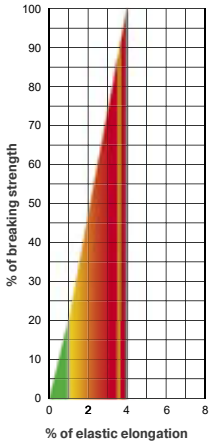
Before we twist this fiber we over apply our own exclusive Aralube coating which improves its translation efficiency as we process it through our manufacturing facility. The rope is twisted and braided with sufficient firmness to be considered self-supporting although many users opt for our Maxijacket urethane coated version which greatly increases its abrasion resistance. Aramid has inherent temperature resistance and has little creep once the rope's permanent elongation is exercised out.

Specifications

Diameter Inches	Diameter mm	Weight Lbs/100ft	Weight Kg/100m	Average Spliced Break Strength* Lbs	Average Spliced Break Strength* Kg	Minimum Spliced Break Strength* Lbs	Minimum Spliced BreakStrength* Kg	Maximum** Work Load 5:1 Lbs	Maximum** Work Load 5:1 Kg
1/8	3	0.5	0.7	2,200	995	1,980	896	440	199
5/32	4	0.9	1.3	3,640	1,650	3,276	1,485	728	330
3/16	5	1.1	1.6	5,590	2,535	5,031	2,282	1,118	507
1/4	6	2.0	3.0	9,150	4,150	8,235	3,735	1,830	830
5/16	8	3.1	4.6	13,600	6,170	12,240	5,553	2,720	1,234
3/8	10	4.4	6.6	17,600	7,990	15,840	7,191	3,520	1,598
7/16	11	5.6	8.3	23,650	10,735	21,285	9,662	4,730	2,147
1/2	13	6.8	10.1	28,600	12,980	25,740	11,682	5,720	2,596
9/16	14	10.3	15.3	37,590	17,065	33,831	15,359	7,518	3,413
5/8	16	12.5	18.6	51,000	23,150	45,900	20,835	10,200	4,630
3/4	19	18.5	27.5	57,000	25,854	51,300	23,269	13,260	6,020
7/8	22	24.1	35.9	85,680	38,895	77,112	35,006	17,136	7,779
1	25	29.6	44.1	102,000	46,305	91,800	41,675	20,400	9,261

* Knots and abrupt bends significantly reduce the strength of all ropes and lower maximum working load.

** Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



Energy Absorption
The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.
- Green working 426 ft. lbs./lb.
- Red ultimate 8,144 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Aracom 100 is 200 micro-amperes when tested at 100kV per Yale Method 712-1701 Rev 1 "Routine Production Test." Absorbed and entrained moisture or impurities will increase rope's conductivity dramatically.

Approved Splice Technique: #10015109, #10018009.

Maximum Working Load
Minimum Break Strength
Average Break Strength

Specific Gravity: 1.44