

Aracom 100

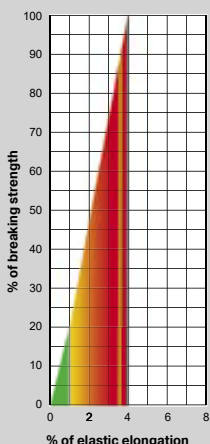
Single Braid



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 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.

Diameter (in)	Spliced Minimum Breaking Strength (lbf)*	Unspliced Minimum Breaking Strength (lbf)**	Average Breaking Strength (lbf)	Weight (lb/ 100ft)
1/8	1,900	2,100	2,200	0.5
5/32	3,200	3,600	3,600	0.9
3/16	5,000	5,500	5,600	1.1
1/4	8,200	9,000	9,200	2.0
5/16	12,000	13,000	13,500	3.1
3/8	15,500	17,000	17,500	4.4
7/16	21,000	23,000	23,500	5.6
1/2	25,500	28,000	28,500	6.8
9/16	33,500	37,000	37,500	10.3
5/8	45,500	50,000	51,000	12.5
3/4	51,000	56,000	57,000	18.5
7/8	77,000	84,000	86,000	24.1



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.

■ Minimum Break Strength

Specific Gravity: 1.44

*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.