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.

Technora®
The power of Aramid

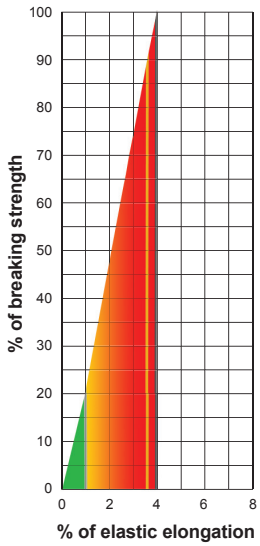
Specifications

Diameter		Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Working Load 5:1		Weight	
Inches	(mm)	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/100ft	Kg/100m
1/8	(3)	2,200	995	1,980	896	440	199	0.5	0.7
5/32	(4)	3,500	1,585	3,150	1,427	700	317	0.9	1.3
3/16	(5)	4,950	2,245	4,455	2,021	990	449	1.1	1.6
1/4	(6)	8,800	3,995	7,920	3,596	1,760	799	2.0	3.0
5/16	(8)	12,650	5,740	11,385	5,166	2,530	1,148	3.1	4.6
3/8	(10)	17,600	7,990	15,840	7,191	3,520	1,598	4.4	6.6
7/16	(11)	23,650	10,735	21,285	9,662	4,730	2,147	5.6	8.3
1/2	(13)	28,600	12,980	25,740	11,682	5,720	2,596	7.7	11.5
9/16	(14)	37,100	16,840	33,390	15,156	7,420	3,368	10.3	15.3
5/8	(16)	50,000	22,700	45,000	20,430	10,000	4,540	12.5	18.6
3/4	(19)	65,000	29,510	58,500	26,559	13,000	5,902	18.5	27.5
7/8	(22)	84,000	38,135	75,600	34,322	16,800	7,627	24.1	35.9
1	(25)	100,000	45,400	90,000	40,860	20,000	9,080	29.6	44.1

Larger sizes available, contact Yale for details.

* 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