



## Nylon Brait

**Nylon Brait** combines braiding technology with plaited rope optimizing the best of both rope styles. Nylon Brait's most outstanding feature is its high energy absorption, which comes from a combination of the very long yarn path and stranditure developed especially to maximize energy absorption. Nylon Brait can absorb

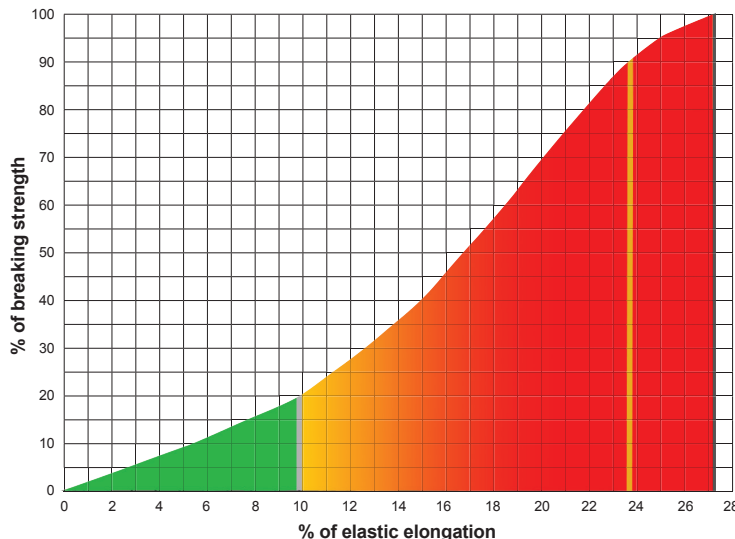
(or mitigate) greater amounts of dynamic energy than 3-stranded or braided-rope structures with less damage. Brait's energy absorption also keeps the corresponding loads on attachment points smaller since the rope does more work internally. Brait is easily spliced and the spliced rope delivers 100% of the rope's advertised strength.

### 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
3/8	(10)	4,000	1,800	3,600	1,620	800	360	3.8	5.7
1/2	(13)	8,300	3,750	7,470	3,375	1,660	750	6.1	9.1
17/32	(13)	9,200	4,150	8,280	3,735	1,840	830	6.4	9.6
5/8	(16)	12,200	5,500	10,980	4,950	2,440	1,100	9.4	14.0
21/32	(17)	12,900	5,850	11,610	5,265	2,580	1,170	9.6	14.3
11/16	(17)	15,000	6,800	13,500	6,120	3,000	1,360	11.0	16.4
3/4	(19)	17,000	7,700	15,300	6,930	3,400	1,540	14.0	20.8
7/8	(22)	22,000	10,000	19,800	9,000	4,400	2,000	19.0	28.3
1	(25)	27,000	12,250	24,300	11,025	5,400	2,450	23.7	35.3
1-1/8	(29)	34,750	15,750	31,275	14,175	6,950	3,150	30.5	45.4
1-1/4	(32)	40,500	18,350	36,450	16,515	8,100	3,670	35.6	53.0
1-1/2	(38)	56,700	25,700	51,030	23,130	11,340	5,140	49.8	74.2
1-5/8	(41)	67,700	30,700	60,930	27,630	13,540	6,140	59.5	88.6
1-3/4	(44)	84,700	38,450	76,230	34,605	16,940	7,690	74.0	110.2

\* 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 constitutes hazardous shock load and would void normal working load recommendation. Consult Yale Cordage for guidelines for working loads and 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 1,426 ft. lbs./lb.

■ Red ultimate 23,680 ft. lbs./lb..

Approved Splice Technique: #10017302.

■ Maximum Working Load

■ Minimum Break Strength

■ Average Break Strength

Specific Gravity: 1.14