

Natural fibre

Natural fibre ropes are produced from plant fibres.

Manila

Abaca plant (*musa textilis*). A rough, very hard fibre. Of the natural fibres manila is the most resistant to rot and mildew.

Brown in colour.



Sisal

Agave sisalana plant. The fibre is softer than manila but much more sensitive to weather conditions. Creamy white in colour.



Hemp

Canabis sativa plant. Fibre is soft to the touch. Hemp is the most decorative natural fibre rope. Like sisal it is vulnerable to mildew and bacteria. Light beige in



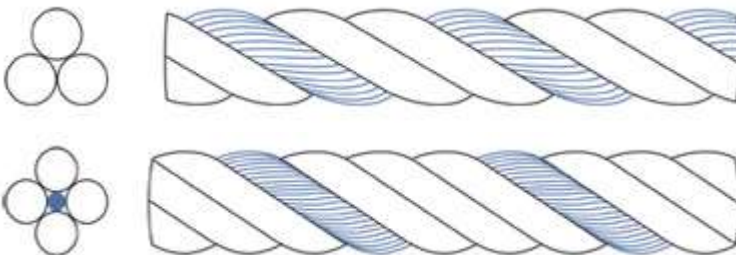
colour.

- Doesn't burn into hand
- Easy to splice
- Resistant to high temperatures (hemp)
- Aesthetic
- Ecological

Construction

3- and 4-strand twisted

- Diameter/mm marked on each coil
- Coils of 100-200-220m



Sisal seizing twine

- Balls of 2,5kg
- 10 balls per pack

Sisal baler twine

- Rolls of 9kg
- 2 rolls per pack
- Rot-proofed

Other construction and packaging on request

Properties

<i>Relative density</i>	1,35
<i>Temperature resistance</i>	Resistant to higher temperature than synthetic rope
<i>UV resistance</i>	Good
<i>Extension</i>	Circa 18% at break
<i>Flexibility</i>	Very soft and flexible
<i>Chemical resistance</i>	Sensitive to rot and mildew - rot-proofed on request

Length measured under reference tension according to EN ISO 9554

Typical applications

Tying and seizing - Hand rope - Harvest rope - Decoration

Manila grade 2 and Sisal

Diam. Ø	Mass	Min. breaking load	
mm	kg/100m	T	kN
6	2,7	0,24	2,35
8	4,6	0,48	4,74
10	6,4	0,64	6,23
12	10	0,96	9,37
14	13,6	1,28	12,6
16	18,2	1,81	17,7
18	22	2,13	20,9
20	27,7	2,84	27,9
22	33,2	3,4	33,4
24	40	4,06	39,8
26	46,8	4,72	46,3
28	53,6	5,33	52,3
30	62,7	6,1	59,8
32	70,5	6,86	67,3
34	80	7,62	74,8
36	89,6	8,64	84,8
38	100	9,4	92,2
40	111	10,4	102
44	135	12,7	125
48	160	14,7	144

Manila EN ISO 1181

Diam. Ø	Mass	Min. breaking load	
mm	kg/100m	T	kN
6	2,8	0,29	2,8
8	5,4	0,54	5,34
10	6,8	0,7	6,91
12	10,5	1,07	10,5
14	14	1,46	14,3

16	19	2,03	19,9
18	22	2,45	24
20	27,5	3,25	31,9
22	33	3,66	35,9
24	40	4,57	44,8
26	47	5,33	52,3
28	53	6,1	59,8
30	62,5	6,86	67,3
32	70	7,87	77,2
34	80	8,83	86,6
36	89	9,64	94,6
38	100	10,9	107
40	110	12	118
44	134	14,3	140
48	158	16,8	165

Hemp EN 1261

Diam. Ø	Mass	Min. breaking load	
		T	kN
mm	kg/100m		
6	2,7	0,29	2,85
8	4,7	0,51	5
10	7,4	0,8	7,8
12	11,1	1,19	11,7
14	14,1	1,51	14,9
16	18,5	2	19,6
18	23	2,47	24,2
20	28,5	3,06	30
22	34,5	3,67	36
24	41	4,35	42,7
26	48,5	5,05	49,5
28	56	5,93	58,2
30	64	6,81	66,8
32	73,5	7,77	76,2
34	83	8,56	84
36	93	9,38	92
38	104	10,1	99
40	115	10,9	107
44	138	12,9	127
48	166	15,5	152

Sisal seizing twine balls of 2,5kg

Size	Meter per ball ±
3/800	600
3/600	450
3/400	300

Sisal baler twine rolls of 9kg

Size	Meter per roll ±
1/200	1800
1/220	1980

Load VS Extension

