

PRODUCT INFORMATION

TEXTILE ROPE

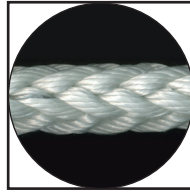
ti-flex[®]

ti-flex® 12 plus

12-strand braided

Nominal Rope-Size (~mm Ø)	Nominal Rope Circ. ~" inch	Rope Weight ~ kg/m	Minimum Breaking Force	
			kN	kgf
40	5	0,98	414	42200
44	5½	1,18	493	50300
48	6	1,40	580	59200
52	6½	1,65	674	68700
56	7	1,92	777	79300
60	7½	2,20	883	90100
64	8	2,50	1000	102000
68	8½	2,82	1120	114000
72	9	3,16	1250	128000
80	10	3,90	1530	156000
88	11	4,73	1840	188000
96	12	5,63	2160	220000
104	13	6,60	2510	256000
112	14	7,65	2870	293000
120	15	8,79	3240	330000

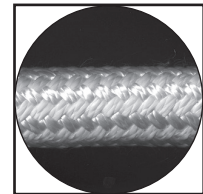
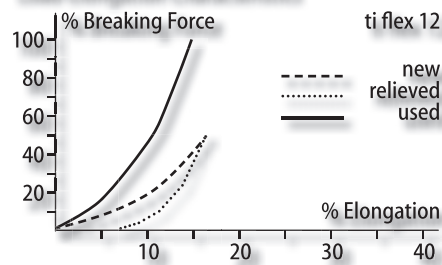
Material: High Tenacity Polyester/Polyethylene Composite
 Specific Gravity: 1,14
 Melting Point: 165°C/260°C
 Operating Temperature: 80°C (max./continuous use)



Ships...

Shown here: typical ropes used on board

Load-Elongation Characteristics



ti-flex® 12 pro

Doublebraid rope, Core: 12-strand braided

Nominal Rope-Size (~mm Ø)	Nominal Rope Circ. ~" inch	Rope Weight ~ kg/m	Minimum Breaking Force	
			kN	kgf
40	5	1,00	417	42500
44	5½	1,17	482	49200
48	6	1,34	546	55700
52	6½	1,55	630	64300
56	7	1,76	713	72700
60	7½	1,99	795	81100
64	8	2,22	886	90400
68	8½	2,51	1030	105000
72	9	2,81	1110	113000
80	10	3,50	1450	148000
88	11	4,24	1720	175000
96	12	5,05	2010	205000

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Impregnation

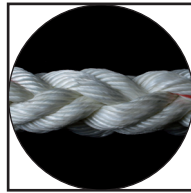
- ...an effective gain for extra life and safety:
 AFC emulsions (PE, PFF or PUD-based, depending on rope material) protect rope yarns, therefore
- optimise load distribution and elongation balance within the strand structure
 - protect yarns from rubbing against one another and from infiltration of foreign particles
 - effectively reduce wear inside the rope

The rope weight is defined as the linear rope mass under pretension. Permissible limit deviation 6-8mm ±10%, 10-14mm ±8%, above these ±5%. The nominal rope size is the approximate rope diameter in mm, the nominal rope circumference the approximate rope circumference in inches. Due to mode of construction the actual rope diameter of new square braided rope can be up to 25% higher than the nominal diameter. Minimum breaking forces determined according to current ISO standard. (Test result meets requirement if break occurs either at 100% of relevant value when linear (unspliced), or minimum 90% at splice).

ti-flex® 1300

8-strand square plaited

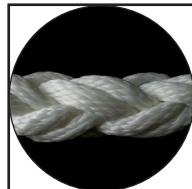
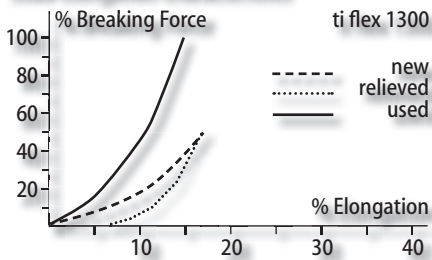
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			kN	kgf
40	5	0,98	414	42200
44	5½	1,18	493	50300
48	6	1,40	580	59200
52	6½	1,65	674	68700
56	7	1,92	777	79300
60	7½	2,20	883	90100
64	8	2,50	1000	102000
68	8½	2,82	1120	114000
72	9	3,16	1250	128000
80	10	3,90	1530	156000
88	11	4,73	1840	188000
96	12	5,63	2160	220000
104	13	6,60	2510	256000
112	14	7,65	2870	293000
120	15	8,79	3240	330000



Dynamic...
High polyester content, very high wear and dynamic load resistance, high breaking strength, ideal as towing stretcher or as mooring line under heavy duty conditions. But: limited floating capability, floats only if short time in water.

Material: High Tenacity Polyester/Polyethylene Composite
Specific Gravity: 1,14
Melting Point: 165°C/260°C
Operating Temperature: 80°C (max./continuous use)

Load-Elongation Characteristics



Textile Ropes

ti-flex® hp

8-strand square plaited

Nominal Rope-Size (~mm Ø)	Nominal Rope Circ. ~" inch	Rope Weight ~ kg/m	Minimum Breaking Force	
			kN	kgf
40	5	0,88	351	35800
44	5½	1,07	418	42600
48	6	1,27	492	50200
52	6½	1,49	571	58200
56	7	1,73	655	66800
60	7½	1,99	745	76000
64	8	2,26	839	85600
68	8½	2,55	945	96400
72	9	2,85	1050	107000
80	10	3,53	1230	125000
88	11	4,27	1540	157000
96	12	5,09	1820	186000
104	13	5,97	2120	216000
112	14	6,92	2430	248000
120	15	7,94	2770	283000

Material: High Tenacity Polyester/Polyethylene Composite
Specific Gravity: 1,14
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Tails and stretchers...

Shown here: Rope constructions with good elasticity and high dynamic load resistance, absorb shocks, relieve strain from mooring and tow lines. We help and advise on dimensioning.

Kraft-Dehnungskurven

