

# S-12 True Guard®



S-12 TRUE-GUARD® ropes are high strength HMPE 12-strand ropes, with an outer braided construction of True-Guard® tapes.

S-12 True-Guard® ropes are 8 times stronger than steel ropes and 3 times stronger than Polyester on a weight-by-weight comparison.

When compared to wire ropes, S-12 True-Guard® ropes are stronger on a weight basis, lighter and easier to handle, safer to use with reduced recoiling upon breaking than typical Polyester covered HMPE ropes and have minimal maintenance needs.

**APPLICATIONS:** Mooring (to be used with synthetic tails) - Anchoring - Tow Lines (to be used with synthetic tails) - STS operations.

The True-Guard® braided construction covers and protects the high strength 12-strand HMPE core of the ropes, providing superior abrasion resistance and enhancing rope lifetime and optimizing rope performance.

S-12 True-Guard® ropes have reduced diameter and weight. Braided constructions with True-Guard® are thin and lightweight in contrast to those involving multifilament fiber bundles.

S-12 True-Guard® ropes are produced according to ISO 10325-2009 and comply with OCIMF's latest regulations and recommendations for the safe mooring of tanker vessels.

They are also suitable for other kinds of vessels such as cruise ships. S-12 True-Guard® ropes are designed for mooring, towing and anchoring lines.

**Specific Gravity:** 0.97

**Elongation at breaking:** 3.5% (when new)

**Melting point:** 145°C

**Abrasion resistance:** Superior

**Resistance to UV radiation:** Excellent

**Chemical Resistance to ACID:** Good. Resistant to H<sub>2</sub>SO<sub>4</sub> in temperatures up to 25°C

**Chemical Resistance to ALKALI:** Excellent

**Chemical Resistance to ORGANIC SOLVENT:** Very Good

More data is available upon request

**Technical Data**

Size (Diam)		Size (Circ)		Weight		Min. Breaking Load	
mm	Inches	Kilos/ 100m	Kilos/ 220m	kN	Tn		
6	3/4	4.7	10.3	60.5	6.2		
8	1	7.1	15.7	94.8	9.7		
10	1 1/4	10.9	24.1	143.2	14.6		
12	1 1/2	14.7	32.4	192.6	19.6		
14	1 3/4	18.4	40.4	242.1	24.7		
16	2	23.3	51.2	291.5	29.7		
18	2 1/4	28.3	62.3	350.2	35.7		
20	2 1/2	34.4	75.7	422.3	43		
22	2 3/4	40.6	89.3	492.3	50.2		
24	3	47.0	103.5	567.5	57.9		
26	3 1/4	54.5	119.9	654.1	66.7		
28	3 1/2	61.8	135.9	743.7	75.8		
30	3 3/4	70.3	154.7	839.5	85.6		
32	4	77.1	169.6	885.8	90.3		
34	4 1/4	86.6	190.5	968.2	98.7		
36	4 1/2	97.2	213.9	1110.3	113.2		
38	4 3/4	107.8	237.1	1224.7	124.8		
40	5	118.5	260.7	1352.4	137.9		
42	5 1/4	129.3	284.4	1468.8	149.7		
44	5 1/2	152.7	335.9	1683.0	171.6		
48	6	174.4	383.8	1946.7	198.4		
52	6 1/2	198.9	437.6	2214.5	225.7		
56	7	230.8	507.9	2477.2	252.5		
60	7 1/2	259.6	571.2	2750.1	280.3		
64	8	294.3	647.4	3040.6	309.9		
68	8 1/2	328.8	723.3	3419.6	348.6		
72	9	367.8	809.3	3788.3	386.2		
76	9 1/2	407.2	895.8	4331.2	441.5		
80	10	452.8	996.1	4568.1	465.7		
84	10 1/2	491.4	1081.1	4820.4	491.4		