

S-12 2000-X



S-12 2000-X ropes are High Modulus / High Performance ropes, produced with the highest quality UHMWPE yarns. S-12 2000-X ropes are treated with special coatings during a unique heat-setting process that enhances the yarns' superior characteristics.

S-12 2000-X ropes are 7-8 times stronger than steel ropes and 3 times stronger than polyester (on a weight by weight comparison).

The applied coatings and the heat-setting process improve drastically the structural stability and the strength efficiency of the rope while increasing the surface's coefficient of friction for better gripping performance when used in winches, capstans, chocks, bitts etc.

When compared to wire ropes, S-12 2000-X ropes are stronger (for the same weight), lighter (making them easy and fast to handle), safer to use and cost-saving (minimum maintenance needs, no greases, faster operating times).

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

S-12 2000-X HMPE ropes are an excellent wire-rope alternative because of the following main benefits:

1. Most cost effective ropes to buy due to lower labor requirements and decreased mooring & towing times.
2. Safer and easier to use due to their high strength and low weight.
3. 2-3 times longer service life.
4. Negligible maintenance costs.

S-12 2000-X ropes are produced according to ISO 10325-2009 and they comply with OCIMF's latest regulations & recommendations for the safe mooring of the tanker vessels.

The ropes are designed for mooring*, towing* and anchoring lines.

Specific Gravity: 0.97

Elongation at breaking: 3.5% (when new)

Melting point: 145°C

Resistance to UV radiation: Excellent

Chemical Resistance to ALKALI Excellent

Chemical Resistance to ORGANIC SOLVENT Very Good

Chemical Resistance to ACID Good. Resistant to H₂SO₄ in temperatures up to 25°C

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Min. Breaking Load
		Kilos/ 100m	Kilos/ 220m	
Inch	mm			Tons
1	8	4.0	8.8	6.0
1 ¹ / ₄	10	6.1	13.4	9.4
1 ¹ / ₂	12	9.4	20.5	14.2
1 ³ / ₄	14	12.6	27.7	19.1
2	16	15.7	34.5	24.0
2 ¹ / ₄	18	19.9	43.7	28.8
2 ¹ / ₂	20	24.2	53.2	34.7
2 ³ / ₄	22	29.4	64.6	41.8
3	24	34.7	76.3	48.7
3 ¹ / ₄	26	40.2	88.4	56.0
3 ¹ / ₂	28	46.6	102.5	64.7
3 ³ / ₄	30	52.8	116.1	73.6
4	32	60.1	132.2	83.1
4 ¹ / ₄	34	65.9	144.9	87.7
4 ¹ / ₂	36	74.0	162.8	95.8
4 ³ / ₄	38	83.1	182.8	109.9
5	40	92.1	202.6	121.2
5 ¹ / ₄	42	101.3	222.8	133.8
5 ¹ / ₂	44	110.5	243.1	145.4
5 ³ / ₄	46	120.5	265.1	158.0
6	48	130.5	287.1	166.6
6 ¹ / ₄	50	139.5	306.9	179.5
6 ¹ / ₂	52	149.1	328.0	192.7
7	56	170.0	374.0	219.2
7 ¹ / ₂	60	197.3	434.1	245.2
8	64	221.9	488.2	272.2
8 ¹ / ₂	68	251.5	553.3	300.9
9	72	281.0	618.2	338.4
9 ¹ / ₂	76	314.4	691.7	374.9
10	80	348.0	765.6	428.6
10 ¹ / ₂	84	387.0	851.4	452.1
11	88	420.0	924.0	477.1