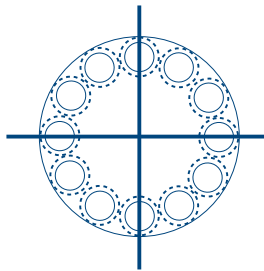


# Saturn-12™

Saturn-12, has proven to be one of the longest lasting, most durable marine ropes available, increasing residual strength as much as 15-20% when compared with other HMPE lines and their conventional coatings.



## Description



Since its introduction in 2010, Its proprietary coating improves abrasion resistance and has been enhanced for greater UV resistance. In addition, Saturn-12 is now made with Dyneema® SK78 fiber, the next generation in HMPE fiber technology. SK78 provides improved service life in applications where creep results from long-term static loads. This torque-free, flexible, and easy-to-handle construction is easy to inspect and splice in the field.

**Product Code:**  
882

**Fiber (Core/Cover):**  
Dyneema®

**Specific Gravity:**  
0.98 (floats)

**Manufacturer:**  
Samson Rope  
Technologies, Inc.

**Splice:**  
For sizes 1/4" – 1-1/4":  
12- Strand Class II

For sizes above 1-1/4":  
12- Strand Class II Modified  
Tuck Bury

## Features

- A size-for-size strength replacement for wire rope at only 1/7th the weight
- Decreased coefficient of friction at winch surfaces
- Easy to handle
- Easy to inspect
- Easy to splice
- Flexible
- Floats
- Improved performance over standard HMPE ropes
- Low creep
- Proprietary coating increases residual strength as much as 15-20%
- Proprietary coating reduces internal yarn to yarn abrasion
- UV resistant

## Applications

- Face and Wing Wire
- Lifting Sling / Mining
- Shield Hauler
- Tug Mainline
- Tug Pendant
- Winch Line / Mining
- Winch Line / Tug
- Working Line / Mining



# Saturn-12™

## Specifications

MATERIALS | SATURN-12™

Diameter (in)	Circum. (in)	Weight per 100 ft. (lbs)	Average Strength (lbs)	Minimum Strength (lbs)	Diameter (mm)	Circum. (mm)	Weight per 100M	Average Strength (kg)	Minimum Strength (kg)	ISO 2307 Strength (mt)
1/4	3/4	1.6	8,600	7,700	6	18	2.4	3,900	3,500	3.9
5/16	1	2.7	13,700	12,300	8	24	4.0	6,200	5,600	6.2
3/8	1-1/8	3.4	19,600	17,600	9	27	5.1	8,900	8,000	8.9
7/16	1-1/4	4.2	23,900	21,500	11	33	6.2	10,800	9,800	10.8
1/2	1-1/2	5.9	34,000	30,600	12	36	8.8	15,400	13,900	15.4
9/16	1-3/4	7.9	40,500	36,500	14	42	11.8	18,400	16,500	18.4
5/8	2	10.2	52,800	47,500	16	48	15.2	24,000	21,600	24.0
3/4	2-1/4	13.3	64,400	58,000	18	54	19.8	29,200	26,300	29.2
13/16	2-1/2	17.0	82,000	73,800	20	60	25.3	37,200	33,500	37.2
7/8	2-3/4	19.6	90,800	81,700	22	66	29.2	41,200	37,100	41.2
1	3	21.8	109,000	98,100	24	72	32.4	49,400	44,500	49.4
1-1/16	3-1/4	27.5	134,000	121,000	26	78	40.9	60,800	54,700	60.8
1-1/8	3-1/2	31.9	148,000	133,000	28	84	47.5	67,100	60,400	67.1
1-1/4	3-3/4	36.2	165,000	149,000	30	90	53.9	74,800	67,400	74.8
1-5/16	4	41.8	184,000	166,000	32	96	62.2	83,500	75,100	83.5
1-3/8	4-1/8	45.0	205,000	185,000	34	100	67.0	93,000	83,700	93.0
1-1/2	4-1/2	51.7	228,000	205,000	36	108	76.9	103,000	93,100	103
1-5/8	5	65.2	283,000	255,000	40	120	97.0	128,000	116,000	128
1-3/4	5-1/2	78.4	335,000	302,000	44	132	117	152,000	137,000	152
2	6	87.0	381,000	343,000	48	144	129	173,000	156,000	173
2-1/8	6-1/2	109	457,000	411,000	52	156	162	207,000	187,000	207
2-1/4	7	116	537,000	483,000	56	168	173	244,000	219,000	244
2-1/2	7-1/2	148	588,000	529,000	60	180	220	267,000	240,000	267
2-5/8	8	167	662,000	596,000	64	192	248	300,000	270,000	300
2-3/4	8-1/2	187	735,000	662,000	68	204	278	333,000	300,000	333
3	9	206	832,000	749,000	72	216	307	377,000	340,000	377
3-1/8	9-1/2	228	920,000	828,000	76	228	339	417,000	376,000	417
3-1/4	10	240	1,007,000	906,000	80	240	357	457,000	411,000	457
3-1/2	10-1/2	295	1,170,000	1,053,000	86	254	439	531,000	478,000	531

\* ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

