

# Saturn-12

Product Code: 882

Class II

The next generation in Samson's 12-strand working lines made with Dyneema® Saturn-12 has an enhanced coating that improves abrasion resistance and increases residual strength as much as 15–20% when compared to standard HMPE lines available today.

**FEATURES:**

- > Made with Dyneema® fiber
- > New Samthane Type E coating increases residual strength as much as 15–20%
- > Improved performance over other standard HMPE ropes
- > Replaces wire rope size for size at 1/7th the weight
- > A torque-free, flexible, and easy-to-handle construction
- > Easy to inspect and splice in the field
- > Floats

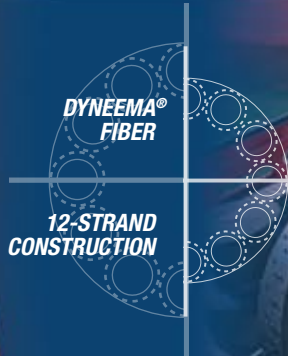
**APPLICATIONS:**

- > Ship-assist lines
- > Rig tow lines
- > Tractor tug winch main lines/pendants
- > Face and wing wires for push tugs

Saturn-12 represents the next generation in Samson's 12-strand working lines made with Dyneema® Fiber Saturn-12 has an enhanced coating that improves abrasion resistance and increases residual strength as much as 15–20% when compared with other HMPE lines and their conventional coatings.

Saturn-12's light weight, high strength, and low stretch makes it ideal for quick, efficient connections and controlled response. Saturn-12 has been tested in extreme conditions and is proven to provide a longer service life while reducing costs when compared to standard HMPE ropes available today.

A compliment to other Samson working lines like AmSteel® Blue and Quantum-12, Saturn-12 is recommended for tug working lines on drums and as a pendant in ship-assist work. It is not recommended for use on H-bits, capstans, or cleats due to its very low coefficient of friction.



Size Diameter INCHES	Size Circumference INCHES	Weight per 100 FT. POUNDS	Samson MBS* POUNDS	Size Diameter MILLIMETERS	Weight per 100 meters KILOGRAMS	Samson MBS* METRIC TONS	ISO/BS EN919 METRIC TONS
1-1/8"	3-1/2"	31.9 lb	133,000 lb	28 mm	47.5 kg	60.4 t	67.1 t
1-1/4"	3-3/4"	36.2 lb	149,000 lb	30 mm	53.9 kg	67.4 t	74.8 t
1-5/16"	4"	41.8 lb	166,000 lb	32 mm	62.2 kg	75.1 t	83.5 t
1-3/8"	4-1/8"	45.0 lb	185,000 lb	34 mm	67.0 kg	83.7 t	93.0 t
1-1/2"	4-1/2"	51.7 lb	205,000 lb	36 mm	76.9 kg	93.1 t	103.0 t
1-5/8"	5"	65.2 lb	255,000 lb	40 mm	97.0 kg	116.0 t	128.0 t
1-3/4"	5-1/2"	78.4 lb	302,000 lb	44 mm	117.0 kg	137.0 t	152.0 t
2"	6"	87.0 lb	343,000 lb	48 mm	129.0 kg	156.0 t	173.0 t
2-1/8"	6-1/2"	109.0 lb	411,000 lb	52 mm	162.0 kg	187.0 t	207.0 t
2-1/4"	7"	116.0 lb	483,000 lb	56 mm	173.0 kg	219.0 t	244.0 t
2-1/2"	7-1/2"	148.0 lb	529,000 lb	60 mm	220.0 kg	240.0 t	267.0 t
2-5/8"	8"	167.0 lb	596,000 lb	64 mm	248.0 kg	270.0 t	300.0 t
2-3/4"	8-1/2"	187.0 lb	662,000 lb	68 mm	278.0 kg	300.0 t	333.0 t
3"	9"	206.0 lb	749,000 lb	72 mm	307.0 kg	340.0 t	377.0 t
3-1/8"	9-1/2"	228.0 lb	828,000 lb	76 mm	339.0 kg	376.0 t	417.0 t
3-1/4"	10"	24.00 lb	906,000 lb	80 mm	357.0 kg	411.0 t	457.0 t

\*Spliced strength

Larger sizes may be available.  
Contact customer service for details.

**SPECIFICATIONS:**

**Specific Gravity:**  
.98 (floats)

**Elastic Elongation Percentage:**

At % of break strength  
10% ..... 0.46%  
20% ..... 0.70%  
30% ..... 0.96%

**Splicing Procedures Required:**

- > SATURN-12 (Modified)  
TUCK-BURY SPLICE



Dyneema® is a registered trademark of Royal DSM N.V.  
Dyneema is DSM's high-performance polyethylene product.

