

# AMSTEEL®-BLUE

Twelve - Strand  
Product Code: 830 (Samthane™ coated blue) ▼▲



12-Strand  
UHMWPE Fiber

Synthetic fiber and rope design and processing technology have continuously made major strides in development to create synthetic rope products that constantly surpass previously established plateaus of performance. The development of ultra high molecular weight polyethylene (UHMWPE) fiber and our tension-set processing procedure has created an added plus to the continuing replacement of wire rope and its associated disadvantages. Based on our processing improvements and the final rope's performance characteristics **we are re-naming Spectron 12 Plus™ to AmSteel®-Blue** which is more reflective of The American Group and the rope's performance.

AmSteel®-Blue is the latest development of UHMWPE fiber in a twelve-strand braided rope utilizing tension-set Parallay™ design with our proprietary blue Samthane™ urethane coating. This twelve-strand braided rope yields the maximum in strength to weight ratio and is stronger than wire rope constructions – yet it floats. The other major advantage AmSteel®-Blue offers is it also has the best flex-fatigue and wear resistance compared to products made of HMWPE or post-drawn HMWPE fibers. The product's light weight, flexibility, and fast, easy splicing make it truly a unique product.

## CHARACTERISTICS

- Maximum strength to weight ratio
- Lowest stretch twelve-strand
- Highest wear and flex-fatigue life
- Non-rotational
- Floats
- Fast and easy to splice
- 40% to 45% stronger than AmSteel®

## APPLICATIONS

- Mooring Lines
- Tug Assist Lines
- Face and Wing Wires
- Seismic Tow Lines
- Winch Lines
- Pulling Lines
- Specialty Rigging Lines
- Wire Rope Replacement

12-STRAND

### AMSTEEL - BLUE

SIZE				WEIGHT		AVERAGE STRENGTH		MINIMUM STRENGTH	
Dia. Inch	Dia. mm	Circ. Inch	Circ. mm	Lbs per 100 Ft.	Kg per 100 M	Lbs	Kg	Lbs	Kg
1/4"	6	3/4"	18	1.60	2.38	9,200	4,173	8,280	3,756
5/16"	8	1"	24	2.65	3.94	13,700	6,214	12,330	5,593
3/8"	9	1-1/8"	27	3.71	5.52	20,445	9,274	18,401	8,347
7/16"	11	1-1/4"	33	4.23	6.30	23,925	10,852	21,533	9,767
1/2"	12	1-1/2"	36	6.35	9.45	36,250	16,443	32,625	14,799
9/16"	14	1-3/4"	42	7.90	11.76	44,660	20,258	40,194	18,232
5/8"	16	2"	48	10.61	15.79	59,015	26,769	53,114	24,093
3/4"	18	2-1/4"	54	13.31	19.81	69,600	31,571	62,640	28,414
13/16"	20	2-1/2"	60	15.84	23.57	81,925	37,161	73,733	33,445
7/8"	22	2-3/4"	66	19.61	29.18	98,310	44,593	88,479	40,134
1"	24	3"	72	23.43	34.87	116,000	52,618	104,400	47,356
1-1/16"	26	3-1/4"	78	27.53	40.97	131,300	59,558	118,170	53,602
1-1/8"	28	3-1/2"	84	31.86	47.41	147,900	67,087	133,110	60,379
1-1/4"	30	3-3/4"	90	36.23	53.92	165,300	74,980	148,770	67,482
1-5/16"	32	4"	96	41.71	62.07	184,150	83,530	165,735	75,177
1-1/2"	36	4-1/2"	108	51.70	76.94	227,650	103,262	204,885	92,936
1-5/8"	40	5"	120	65.72	97.80	283,185	128,453	254,867	115,608
1-3/4"	44	5-1/2"	132	78.35	116.60	334,950	151,933	301,455	136,740
2"	48	6"	144	91.40	136.02	380,625	172,652	342,563	155,387
2-1/8"	52	6-1/2"	156	109.00	162.21	456,750	207,182	411,075	186,464
2-1/4"	56	7"	168	122.00	181.56	537,443	243,784	483,698	219,406
2-1/2"	60	7-1/2"	180	148.00	220.25	588,000	266,717	529,200	240,045
2-5/8"	64	8"	192	167.00	248.53	661,500	300,056	595,350	270,051
2-3/4"	68	8-1/2"	204	187.00	278.29	735,000	333,396	661,500	300,056
3"	72	9"	216	206.00	306.57	830,550	376,737	747,495	339,064
3-1/4"	80	10"	240	261.00	388.42	1,006,950	456,753	906,255	411,077

Fiber Content: . UHMWPE Fiber  
Specific Gravity:..... .98 (Floats)

Elastic Elongation  
at Percentage of Break Strength:

10%	20%	30%
0.44	0.62	0.79

Water Absorption Fiber:  
..... None