

## AmSteel®-Blue brings safety and efficiency to mining operations

**FEATURES:**

- > A size-for-size strength replacement for wire rope at only 1/7th the weight
- > Safer handling due to light weight and flexibility
- > Easier handling results in less down time during change-outs
- > Similar elastic elongation to wire rope
- > Easily inspected or field spliced

**APPLICATIONS:**

- > Material handling winch lines
- > Belt pull-in ropes
- > Retrieval and towing assemblies
- > Secondary safety ropes for rail cars

AmSteel®Blue is a torque-free 12-strand single braid synthetic line that yields the maximum in strength-to-weight ratio and, size-for-size, is the same strength as steel wire rope. At 1/7th the weight of wire, AmSteel®Blue is an excellent wire rope and chain replacement for mining operations. This lightweight construction will increase safety and operating efficiencies due to fewer handling injuries and less downtime when changing out the line. It has extremely low stretch and superior flex fatigue and wear resistance. Samthane coating enhances that already high abrasion and cut resistance.

DYNEEMA®  
FIBER

12-STRAND  
CONSTRUCTION

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1/2"	1-1/2"	6.4 lb	30,600 lb	12 mm	9.5 kg	13.9 t	15.4 t
9/16"	1-3/4"	7.9 lb	36,500 lb	14 mm	11.8 kg	16.5 t	18.4 t
5/8"	2"	10.2 lb	47,500 lb	16 mm	15.2 kg	21.6 t	24.0 t
3/4"	2-1/4"	13.3 lb	58,000 lb	18 mm	19.8 kg	26.3 t	29.2 t
13/16"	2-1/2"	17.0 lb	73,800 lb	20 mm	25.3 kg	33.5 t	37.2 t
7/8"	2-3/4"	19.6 lb	81,700 lb	22 mm	29.2 kg	37.1 t	41.2 t
1"	3"	21.8 lb	98,100 lb	24 mm	32.4 kg	44.5 t	49.4 t
1-1/16"	3-1/4"	27.5 lb	118,000 lb	26 mm	40.9 kg	53.6 t	59.6 t
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	67.5 t	75.0 t
1-5/16"	4"	41.8 lb	166,000 lb	32 mm	62.2 kg	75.2 t	83.6 t
1 3/8"	4-1/8"	45.0 lb	185,000 lb	34 mm	67.0 kg	83.9 t	93.2 t
1-1/2"	4-1/2"	51.7 lb	205,000 lb	36 mm	76.9 kg	93.0 t	103 t
1 9/16"	4-3/4"	57.6 lb	229,000 lb	38 mm	85.7 kg	104 t	115 t
1-5/8"	5"	65.2 lb	255,000 lb	40 mm	97.0 kg	116 t	128 t
1-11/16"	5-1/4"	71.0 lb	276,000 lb	42 mm	106 kg	125 t	139 t
1-3/4"	5-1/2"	78.4 lb	302,000 lb	44 mm	117 kg	137 t	152 t
2"	6"	87.0 lb	343,000 lb	48 mm	129 kg	155 t	173 t
2-1/16"	6-1/4"	95.0 lb	376,000 lb	50 mm	141 kg	171 t	190 t
2-1/8"	6-1/2"	109 lb	411,000 lb	52 mm	162 kg	186 t	207 t
2-1/4"	7"	116 lb	484,000 lb	56 mm	173 kg	219 t	244 t
2-1/2"	7-1/2"	148 lb	529,000 lb	60 mm	220 kg	240 t	267 t
2-5/8"	8"	167 lb	595,000 lb	64 mm	248 kg	270 t	300 t
2-3/4"	8-1/2"	187 lb	662,000 lb	68 mm	278 kg	300 t	333 t
3"	9"	206 lb	749,000 lb	72 mm	307 kg	340 t	377 t

\*Spliced strength \*\* This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

AmSteel®Blue is available in larger sizes. Contact customer service for details.

**SPECIFICATIONS†**

FIBER: Dyneema®

SPECIFIC GRAVITY: 0.98 (floats)

STANDARD COLOR: Blue (also available by special order in red, green, and orange)

**ELASTIC ELONGATION PERCENTAGE**

At % of break strength

10% ..... 0.46%

20% ..... 0.70%

30% ..... 0.96%

SPLICE/CLASS: 12-strand Class II

†Due to our continued research and development of product performance, the specifications listed herein are subject to change. For the most current sizes, weights, and strengths, go to [SamsonRope.com](http://SamsonRope.com).



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

