

AmSteel®Blue brings safety and efficiency to mining operations

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 or chain, AmSteel®Blue is an excellent replacement for mining operations. This lightweight construction increases safety and operating efficiencies due to fewer handling injuries and less downtime when changing out the line. It has extremely low stretch with superior flex fatigue and wear resistance. Samthane coating adds to the already high abrasion and cut resistance.

Features

- Size-for-size strength replacement for wire rope at only 1/7th the weight
- Safer handling due to lighter weight and greater flexibility
- Less downtime during change-outs
- Similar elastic elongation to wire rope
- Easy inspection and field splicing
- Increased winching capability
- Reduced labor costs
- Reduced exclusion zones due to inherently safer recoil patterns
- Easy eye re-splicing

Applications

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

SIZE DIAMETER	WEIGHT PER 100 FT	AVG. STRENGTH*	MIN. STRENGTH*	SIZE DIAMETER	WEIGHT PER 100 M	AVG. STRENGTH*	MIN. STRENGTH*
1/2 in	6.4 lb	34,000 lb	30,600 lb	12 mm	9.5 kg	15,400 kg	13,900 kg
9/16 in	7.9 lb	40,500 lb	36,500 lb	14 mm	11.8 kg	18,400 kg	16,500 kg
5/8 in	10.2 lb	52,800 lb	47,500 lb	16 mm	15.2 kg	24,000 kg	21,600 kg
3/4 in	13.3 lb	64,400 lb	58,000 lb	18 mm	19.8 kg	29,200 kg	26,300 kg
13/16 in	17 lb	82,000 lb	73,800 lb	20 mm	25.3 kg	37,200 kg	33,500 kg
7/8 in	19.6 lb	90,800 lb	81,700 lb	22 mm	29.2 kg	41,200 kg	37,100 kg
1 in	21.8 lb	109,000 lb	98,100 lb	24 mm	32.4 kg	49,400 kg	44,500 kg
1-1/16 in	27.5 lb	131,000 lb	118,000 lb	26 mm	40.9 kg	59,400 kg	53,500 kg
1-1/8 in	31.9 lb	148,000 lb	133,000 lb	28 mm	47.5 kg	67,100 kg	60,400 kg
1-1/4 in	36.2 lb	165,000 lb	149,000 lb	30 mm	53.9 kg	74,800 kg	67,400 kg
1-5/16 in	41.8 lb	184,000 lb	166,000 lb	32 mm	62.2 kg	83,500 kg	75,100 kg
1-3/8 in	45 lb	205,000 lb	185,000 lb	34 mm	67 kg	93,000 kg	83,700 kg
1-1/2 in	51.7 lb	228,000 lb	205,000 lb	36 mm	76.9 kg	103,000 kg	93,100 kg
1-9/16 in	57.6 lb	254,000 lb	229,000 lb	38 mm	85.7 kg	115,000 kg	104,000 kg
1-5/8 in	65.2 lb	283,000 lb	255,000 lb	40 mm	97 kg	128,000 kg	116,000 kg
1-11/16 in	71 lb	307,000 lb	276,000 lb	42 mm	106 kg	139,000 kg	125,000 kg
1-3/4 in	78.4 lb	335,000 lb	302,000 lb	44 mm	117 kg	152,000 kg	137,000 kg
2 in	87 lb	381,000 lb	343,000 lb	48 mm	129 kg	173,000 kg	155,000 kg
2-1/16 in	95 lb	418,000 lb	376,000 lb	50 mm	141 kg	190,000 kg	171,000 kg
2-1/8 in	109 lb	457,000 lb	411,000 lb	52 mm	162 kg	207,000 kg	187,000 kg
2-1/4 in	116 lb	537,000 lb	483,000 lb	56 mm	173 kg	244,000 kg	219,000 kg
2-1/2 in	148 lb	588,000 lb	529,000 lb	60 mm	220 kg	267,000 kg	240,000 kg
2-5/8 in	167 lb	662,000 lb	596,000 lb	64 mm	248 kg	300,000 kg	270,000 kg
2-3/4 in	187 lb	735,000 lb	662,000 lb	68 mm	278 kg	333,000 kg	300,000 kg
3 in	206 lb	832,000 lb	749,000 lb	72 mm	307 kg	377,000 kg	340,000 kg
3-1/8 in	228 lb	920,000 lb	828,000 lb	76 mm	339 kg	417,000 kg	376,000 kg
3-1/4 in	240 lb	1,007,000 lb	906,000 lb	80 mm	357 kg	457,000 kg	411,000 kg
3-3/8 in	265 lb	1,120,000 lb	1,008,000 lb	82 mm	394 kg	508,000 kg	457,000 kg
3-1/2 in	295 lb	1,170,000 lb	1,053,000 lb	86 mm	439 kg	531,000 kg	478,000 kg

*Spliced strength

AmSteel®Blue is available in additional 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**
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.



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