



4AC.063 Braided rope – Silicate

Overview

Silicate fibres are inorganic and don't contain toxic substances. Therefore, they are an excellent alternative to ceramic fibres with their strong thermal and mechanical properties. With a diameter of 9 µm, these fibres pose no health risk when handling and can withstand high temperatures better than glass or basalt. In addition to being excellent low-density thermal insulators, silicate fibre sleeves are fireproof and have a low coefficient of thermal expansion, even at very high temperatures.

Technical Data

Properties		Unit	Value	
Material			Silicate	
Declination			S92	S94
Composition		%	SiO ₂ : 94.5 Al ₂ O ₃ : 4.5 NaO ₂ : < 0.5 Other: < 0.5	SiO ₂ : 94-96 Al ₂ O ₃ : < 4 Other: < 2
Temperature	Operating	°C	1,000	1,050
	Peak		1,200	1,200

General Data

Material	Thermal resistivity	Mechanical strength	Chemical resistance
Silicate	★★★★★	★★★★☆	★★★★☆ Except for hydrofluoric acid

Applications

- Sealing joint
- Heat protection

**Silicate braided rope****Available S92 braided ropes**

Round braided ropes	
Section (mm)	Internal reference
5	1TEX001481
6	1TEX001482
8	1TEX001483
10	1TEX001484
12	1TEX001485
14	1TEX001486
15	1TEX001487
16	1TEX001488
18	1TEX001489
20	1TEX001490
22	1TEX001491
25	1TEX001492
28	1TEX001493
30	1TEX001494
35	1TEX001495
40	1TEX001496
50	1TEX001497

Square braided ropes	
Section (mm x mm)	Internal reference
5 x 5	1TEX001464
6 x 6	1TEX001465
8 x 8	1TEX001466
10 x 10	1TEX001467
12 x 12	1TEX001468
14 x 14	1TEX001469
15 x 15	1TEX001470
16 x 16	1TEX001471
18 x 18	1TEX001472
20 x 20	1TEX001473
22 x 22	1TEX001474
25 x 25	1TEX001475
28 x 28	1TEX001476
30 x 30	1TEX001477
35 x 35	1TEX001478
40 x 40	1TEX001479
50 x 50	1TEX001480

Available S94 braided ropes

Round braided ropes	
Section (mm)	Internal reference
3	1TEX001692
4	1TEX001693
6	1TEX001694
8	1TEX001695
10	1TEX001696
12	1TEX001697
14	1TEX001698
15	1TEX001699
16	1TEX001700
18	On request
20	1TEX001701
30	1TEX001702
35	1TEX001703

Square braided ropes	
Section (mm x mm)	Internal reference
4 x 4	On request
5 x 5	1TEX004588
6 x 6	On request
8 x 8	1TEX002609
10 x 10	1TEX017995
12 x 12	On request
14 x 14	On request
15 x 15	On request
16 x 16	TEX017999
18 x 18	On request
20 x 20	1TEX018000
22 x 22	On request
25 x 25	On request

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