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PRODUCT DATA

TITAN® CARBON FIBER FABRIC

Titan® Carbon Fiber Fabric is a flexible, woven, unidirectional carbon fiber fabric designed for use as an externally applied reinforcement for strengthening concrete and masonry structures. The ultimate top-to-bottom stabilization for bowed foundation walls, improveing the overall strength of the foundation. Our carbon fiber straps can be applied to any porous surface, it is 10x stronger than steel, thin as a dime, and once painted it is virtually unnoticeable.

STRUCTURAL BENEFITS

- Steel reinforcement stress reduction
- Shear strength improvements
- Strength increase
- Flexural strength improvements
- Retaining wall reinforement

PRODUCT APPLICATIONS

- Basement foundation repair
- Parking decks
- Shear strength improvements
- Column wrapping
- Increased strength of masonry & concrete walls

PRODUCT DESIGNATION

T700S	C	12,000	5	0
Fiber Type	Twist*	Filament Count	Sizing Type	Surface Treatment

*C: Never Twisted

TECHNICAL DATA

FIBER PROPERTIES	ENGLISH	METRIC	TEST METHOD
Tensile Strength	738 ksi	4,900 MPa	TY-030B-01
Tensile Modulus	34.3 ksi	230 Gpa	TY-030B-01
Strain at Failure		2.1%	TY-030B-01
Density		1.80 g/cm3	TY-030B-02
Filament Diameter		7	———
Yield	6 k	400 g/1000m	TY-030B-03
	12 k	800 g/l000m	TY-030B-03
	24 k	1,650 g/1000m	TY-030B-03

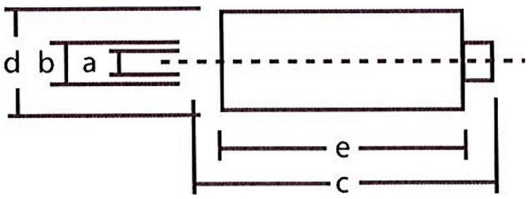
COMPOSITE PROPERTIES	ENGLISH	METRIC	TEST METHOD
Tensile Strength	152 ksi	1048 MPa	ASTM D-3039
Tensile Modulus	11,170 ksi	77 Gpa	ASTM D-3039
Tensile Strain	1.36%	1.36%	ASTM D-3039
ILSS	6620 ksi	45.6 MPa	ASTM 2344

PRODUCT DATA (cont'd)

FUNCTIONAL PROPERTIES	VALUE
CET	-0.38a · 10 -6/°C
Specific Heat	0.752 J/g· °C
Thermal Conductivity	0.096 J/m ·s· °C
Electric Resistivity	1.6 x 10-3 Ω-cm
Chemical Composition: Carbon	>93%
Na+ K	<50 ppm

TOW SIZES	SIZING	BOBBIN NET WEIGHT (KG)	BOBBIN TYPE	a	b	c	d	e	SPOOL PER CASE	CASE NET WEIGHT (KG)
6 K	50C	2.0	III	76.5	82.5	280	130	252	12	24
12 K/24 K	50C/60E/FOE	6.0	III	76.5	82.5	280	130	252	4	24

Bobbin Type: Type III



Emecole Metro LLC

TITAN
Structural Reinforcement

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LIMITED WARRANTY

Emecole Metro, LLC (TITAN®) warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. The purchaser must examine the product when received and promptly notify Emecole Metro, LLC in writing of any nonconformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Emecole metro, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty.

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