

### PRODUCT DESCRIPTION:

ROCKET FABRIC is a woven carbon fiber material used in the ASME PCC-2 compliant ROCKET WRAP composite repair system. It is manufactured from a continuous, high strength, high strain, PAN based fiber in 6,000 (6K) and 12,000 (12K) filament count tows. This fiber has been surface-treated and sized to improve its interlaminar shear properties, handling characteristics, and structural properties. ROCKET FABRIC is engineered to provide extremely strong, durable, and lightweight composites for long term structural repair and reinforcement.

### FEATURES:

- Unsurpassed strength to weight ratio
- Coefficient of Thermal Expansion close to carbon steel
- Pliable fabric conforms to any shape and complex geometries
- Withstands elevated temperatures and harsh chemicals
- Easy to saturate with two-part epoxy

### STORAGE AND HANDLING:

The shelf life of ROCKET FABRIC is 5 years at 77°F (25°C). For best results, store in a cool, dry place out of direct sunlight.

### PACKAGING:

- 2" x 30 Ft Roll
- 4" x 15 Ft Roll
- 4" x 150 Ft Roll
- 6" x 10 Ft Roll
- 6" x 150 Ft Roll
- 12" x 15 Ft Roll
- 12" x 150 Ft Roll
- 24" x 15 Ft Roll
- 24" x 150 Ft Roll

### LIMITED WARRANTY

For warranty information please visit

[http://www.jetlube.com/pdf/Limited\\_Warranty\\_At\\_Delivery\\_Deacon.pdf](http://www.jetlube.com/pdf/Limited_Warranty_At_Delivery_Deacon.pdf) You can also email us at [sales@jetlube.com](mailto:sales@jetlube.com)

### PROPERTIES:

Carbon Fiber	U.S. Units	SI Units
<b>Tensile Strength</b>		
6K	660 ksi	4550 MPa
12K	670 ksi	4619 MPa
Tensile Modulus (Chord 6000-1000)	33.5 Msi	231 GPa
<b>Ultimate Elongation at Failure</b>		
6K	1.8%	1.8%
12K	1.8%	1.8%
Density	0.0643 lb/in <sup>3</sup>	1.78 g/cm <sup>3</sup>
<b>Weight/Length</b>		
6K	22.4 x 10 <sup>-6</sup> lb/in	0.400 g/m
12K	44.8 x 10 <sup>-6</sup> lb/in	0.800 g/m
<b>Approximate Yield</b>		
6K	3,721 ft/lb	2.50 m/g
12K	1,861 ft/lb	1.25 m/g
<b>Tow Cross-Sectional Area</b>		
6K	3.48 x 10 <sup>-4</sup> in <sup>2</sup>	0.22 mm <sup>2</sup>
12K	6.97 x 10 <sup>-4</sup> in <sup>2</sup>	0.45 mm <sup>2</sup>
Filament Diameter	0.272 mil	6.9 microns
Carbon Content	94.0%	94.0%
Twist	Never Twisted	Never Twisted

Rocket Fabric	U.S. Units	SI Units
Weight ± 5%	11.3 oz/yd <sup>2</sup>	383 g/m <sup>2</sup>
Thickness	0.024 in	0.61 mm
Tensile Strength (Warp)	3,330 lbf/in	14,813 N/in
Tensile Strength (Fill)	1,623 lbf/in	7,219 N/in