

PENTATEX CFTM Carbon System

Pipe structural reinforcement system

PERFORMANCE

This composite repair system based on carbon fiber and epoxy (Carbon Fiber Reinforced Polymer - PRFC) has been designed to restore the mechanical integrity of pipes.

Each **PENTATEX CFTM** Repair Kit contains the following 100% solids based epoxy components: Primer, Resin, Putty and Carbon Fiber. These components are specially combined to form the high performance **PENTATEX CFTM** system, which allows mechanical recovery of corroded, damaged and eroded areas of various metallic assets.

COMPATIBLE

PENTATEX CF™ is fully compliant with DOT and ASME B31, B31.8, B31.4, B31.G and API 570 regulations. It has been tested and approved to ASME PCC-2 art. 4.1 and ISO TS 24817 as a basis for product characteristics, engineering design and product installation, and personnel training.

CONTACT US

PENTATEX GROUP

2000 Salzedo Street Coral Gables, Florida 33134 United States

Mobile: +1-305-333-7027

info@pentatexgroup.com www.pentatexgroup.com

Properties	Metric System	English System
Thickness per layer	0.57 mm	0.023 in
Modulus of Elasticity, Circumferential	4.91 x 10 ⁷ kpa	7.13 x 10 ⁶ psi
Modulus of elasticity, Axial	2.38 x 10 ⁷ kpa	3.46 x 10 ⁶ psi
Tensile Strength, Circumferential	5.72 x 10 ⁵ kpa	8.3 x 10 ⁴ psi
Tensile Strength, Axial	2.41 x 10 ⁵ kpa	3.5 x 10 ⁴ psi
Coefficient of Thermal Expansion, Circumf		5.16 x 10 ⁻⁶ / °F
Coefficient of Thermal Expansion, Axial	16.79 x 10 ⁻⁶ / °C	9.33 x 10 ⁻⁶ / °F
setting time	6-8 Hours @ 25°C	6-8 Hours @ 77°F
Maximum operating temperature	-50°C to 82°C	-58°F to 180°F
Shear stress resistance (Adhesion)	> 17,236 kpa @ 77°F	> 2,250 psi @ 77°F
Hardness	80 Shore D	80 Shore D
Elastic plastic behavior	1.30% Strain to Failure	1.30% Strain to Failu

PENTATEX CF™ is a unique solution that provides a structural repair resistant to chemical and corrosive environments. In the case of structures exposed to aggressive factors or reinforcement of damaged and corroded areas, our systems allow great economic savings compared to other traditional options such as metal sleeves or section replacement.

