



PENTATEX GROUP

PENTATEX GE Fiberglass Systems

STRUCTURAL REINFORCEMENT OF PIPES

PERFORMANCE

PENTATEX GE™ Fiberglass System is a high-performance fiberglass composite system used to rehabilitate and restore damaged, corroded, and eroded tank and piping systems to original operating strength.

GEOMETRY

PENTATEX GE™ has the advantage of being applied to a multitude of piping configurations such as: Tees, branch fittings, nipples, fittings, straight pipe, elbows, risers, potted flanges, air-soil interfaces, dents, gouges, mechanical defects, pitting, encapsulated steel small to large pipe diameters, reducers, and sleeves.

COMPATIBLE TECHNOLOGY

PENTATEX GE™ 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.

CONTACT US

PENTATEX GROUP

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The **PENTATEX GE™** Fiberglass System uses a high-performance epoxy resin and glass (E-Glass quality) system designed to repair pipe anomalies without taking the system out of service. Meets the requirements of ASME PCC-2 art. 4.1, as well as ISO TS 24817.

This particular compound solution is used to reinforce and mitigate external corrosion and pitting in girth and pipe welds. It is commonly used to repair dents, gouges, wrinkled bends, and other oddly shaped geometric pipes. Repairs can be completed on the same day. The **PENTATEX GE™** Fiberglass System comes in repair kits for all pipe sizes, ready to ship on demand. Additionally, **PENTATEX GE™** can be custom designed to fit the requirements of any unique anomaly.

The **PENTATEX GE™** Fiberglass System has been thoroughly tested by third-party engineering firms in the United States and Europe and has not only met but exceeded the requirements by receiving ASME PCC-2 art. 4.1 and ISO TS 24817 certifications. Additional tests on this system include dents, wrinkle bends, and defects caused by cyclic fatigue. Various elongation analyzes and burst tests show how robust this system is and how it can return the area of anomaly to its original design pressure capacity.

FEATURES

- No downtime, no heavy equipment, no hot work permits required.
- Compatible with carbon steel, stainless steel, alloys, PVC, concrete, fiberglass, and other substrate materials.
- Corrosion and chemical resistant to all hydrocarbons and various complex fluids.
- Various presentations of widths and lengths for fiberglass rolls.
- Pre-measured and sealed components.
- Environmentally friendly application.





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TEMPERATURE

The **PENTATEX GE™** Fiberglass System is available with your choice of up to three different epoxy systems for almost any application. Whether it is cold weather, extreme heat, or harsh chemicals, there's a system to suit your needs. A unique resin formulation for repairs with leak-sealing capabilities is also available.

APLICACIONES EN LAS SIGUIENTES AREAS:

- Transportation of liquids and gases.
- Energy generation.
- Refining and petrochemical plants.
- Mining.
- Oil & Gas
- Pulp and paper.
- Production facilities.
- Water and wastewater treatment.

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Biaxial Fiber Properties	Metric Systems	English system
Thickness per layer	2.10 mm	0.083 in
Modulus of elasticity, circumferential	9.10 x 10 ⁷ kpa	1.32 x 10 ⁶ psi
Modulus of elasticity, axial	14.4 x 10 ⁷ kpa	2.09 x 10 ⁶ psi
Tensile Strength, Circumferential	1.38 x 10 ⁵ kpa	2.01 x 10 ⁴ psi
Tensile strength, axial	1.53 x 10 ⁵ kpa	2.23 x 10 ⁴ psi
Coefficient of Thermal Expansion, Circumferential	25.6 x 10 ⁻⁶ / °C ⁻¹	13.9 x 10 ⁻⁶ ° F ⁻¹
Coefficient of Thermal Expansion, Axial	20.0 x 10 ⁻⁶ / °C ⁻¹	11.0 x 10 ⁻⁶ ° F ⁻¹
Curing time	5-8 Hours @ 25°C	5-8 Hours @ 77°F
Maximum operating temperature	-50°C to 191°C	-58°F to 375°F
Hardness	82.5 Shore D	82.5 Shore D
Linear elastic behavior	1.80% Stress	1.80% Stress

Training courses compliant with ASME PCC-2 and ISO TS 24817 on **PENTATEX GE™** Fiberglass System are available For field assistance, **PENTATEX GROUP** will provide services, limited to on-site supervision, training, certification, project management or technical support. For further assistance, please contact info@pentatexgroup.com

