



CLOCK SPRING®

Pipe Repair System

Clock Spring® is an economical repair alternative for pipelines. Clock Spring's patented design re-defines the economics of pipeline repair, ensuring a permanent repair that is safe, economical and effective. The Clock Spring repair is comprised of 8 wraps of composite, the Clock Spring® high-strength filler material and the Clock Spring® adhesive. The individual wraps of the repair are bonded together, and to the pipe surface to restore serviceability. Clock Spring® can be used to permanently repair external blunt metal loss defects with a depth of less than 80% of the nominal wall thickness.

The Clock Spring® pipe repair system is a high strength corrosion resistant e-glass and resin composite sleeve, a high performance adhesive and a high-strength filler material. The composite sleeves are uniquely shaped and sized to wrap around pipe diameters of 4-inches (102 mm) to 56-inches. The individual layers are bonded together and to the pipe to fully restore serviceability.



Clock Spring repairs are fast, economical, safe and easy. Since no cutting or welding is required, there is no risk to the pipeline or the environment, no release of greenhouse gases or waste disposal issues.

It is simply the smartest pipeline repair decision you can make!

www.clockspring.com

Clock Spring® Pipe Reinforcement and Repair System Product Specification Sheet

I.	Sleeve Specifications	
	Use	Designed to repair/reinforce damaged or corroded sections of pipe with up to 80% through wall loss.
	Number of Wraps	8-layers
	Nominal Thickness	0.500-inches (13 mm)
	Application Temperature	0° F – 170° F (-18° C – 77° C)
	Service Temperature	-20° F – 170° F (-29° C – 77° C) For temperatures below -20° F (-29° C) contact manufacturer.
	Material	E-glass and Polyester resin
	Width	11.5" ± 0.5" (292 mm ± 13 mm)
	Service Life	> 50 years
II.	Adhesive Specification	
	Lap Shear Strength	>1200 psi (8.27 MPa)
	Shelf Life	12 months from date of manufacture
III.	Filler Specification	
	Compressive strength	>8000 psi (55 MPa)
	Shelf Life	12 months from date of manufacture
IV.	Activator Specification	
	Shelf Life	12 months from date of manufacture Refrigeration at 38-52° F (3-11° C) will extend material shelf life an additional 3 months.

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