



CLOCK SPRING®

Innovative solutions.....

PERMANENT PIPE REPAIR SYSTEM

Clock Spring's patented design redefines the economics of pipeline repair, insuring permanent field repair that is easy, fast and inexpensive.

Clock Spring® Pipe Reinforcement System is a high strength corrosion resistant composite sleeve, a high-performance adhesive and a high compressive strength filler material. The composite sleeve is uniquely coil-shaped and sized to wrap tightly around pipe diameters from 4" to 56" providing eight (8) individual layers bonded together insuring permanent field repairs and reinforcement of pipe sections.



Clock Spring®

It's simply the smartest pipeline repair decision you can make.

CLOCK SPRING PIPE REINFORCEMENT SYSTEM PRODUCT SPECIFICATION SHEET

I. SLEEVE SPECIFICATIONS

<u>Use</u>	Designed to repair/reinforce damaged or corroded sections of line pipe with less than 80% thru-wall loss
<u>Standard Configuration</u>	8 layers
<u>Nominal Thickness</u>	1/2" (13mm)
<u>Application Temperature</u>	0°F to 120°F (-18°C to 49°C)
<u>Service Temperature</u>	-20°F to 130°F (-29°C to 54°C) (For temperatures below -20°F contact Manufacturer)
<u>Material</u>	E-glass / polyester
<u>Layer Thickness</u>	.060" ± .010" (1.52 mm ± 0.25 mm)
<u>Width</u>	11.500" ± 0.500" (292 mm ± 13 mm)
<u>Length</u>	CS length is matched to respective pipe O.D. to ensure 8 layers when installation is complete

II. ADHESIVE SPECIFICATIONS

<u>Mixed Viscosity</u>	15,000-20,000 cps
<u>Shelf Life</u>	12 months from Date of Manufacture

III. FILLER SPECIFICATIONS

<u>Mixed Viscosity</u>	180,000 cps
<u>Shelf Life</u>	12 months from Date of Manufacture

IV. ACTIVATOR SPECIFICATIONS

<u>Shelf Life</u>	12 months from Date of Manufacture (NOTE: Refrigeration at 38°F - 52°F will extend material shelf life an additional 3 months)
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