



# A+ Wrap™

A+ Wrap™ is an easy-to-install bi-directional fiberglass composite solution for on-site repair of corroded and dented pipelines and piping structures. Provided as a water activated pre-impregnated composite, A+ Wrap is ideal for simplifying installation during pipeline rehabilitation.

## APPLICATIONS

The A+ Wrap system is most commonly used for pipelines and piping systems suffering from corrosion or mechanical damage. Repairable defects include:

- External corrosion and pitting
- Dents, gouges and scratches
- Manufacturing defects

## COMPLIANT WITH: (standards/certifications)

- US CFR 192 and CFR 195
- CSA Z662
- ASME B31 standards
- ISO 24817
- ASME PCC-2 Article 401

## BENEFITS:

- Water activated pre-impregnated fiber allows for easy installation
- Permanent repair with minimal disruption to pipeline operation during installation and top coating
- No field saturation reducing composite repair installation time and time to backfill
- Cost effective for common pipeline defects such as corrosion and dents
- Can be applied on dry or wet surfaces, even underwater
- Conforms to any shape including elbows, tees, flanges, bends & more



# A+ Wrap™

## TECHNICAL DATA

PROPERTY	CIRCUMFERENTIAL DIRECTION	AXIAL DIRECTION
Tensile Strength	53.25 ksi (367 MPa)	23.81 ksi (164 MPa)
Tensile Modulus	3.68 Msi (25.4 GPa)	1.75 Msi (12.1 GPa)
Ply Thickness	0.013"	
Glass Transition Temperature	260 °F (126 °C)	
Hardness	75	
Max Recommended Application Temperature	120°F (50 °C)	
Shelf Life	12 months	

## CURING SCHEDULE

TEMPERATURE		SET TIME	CURE TIME
(C)	(F)	(HRS)	(HRS)
10	50	5.20	24
16	60	3.45	15
24	75	2.30	5.5
32	90	2.00	4.25
49	120	1.00	3

## REPAIR SYSTEM COMPONENTS:

- Filler: EPN-101, ESN-202, EPN-242
- Primer: PPR-220, PPR-290
- Prepreg: AP-FP

**WARRANTY** CSNRI routinely implements product improvements. Please contact your local distributor or office for the most current product specifications. CSNRI warrants the quality of this product when used according to directions.



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### LIBERTY SALES & DISTRIBUTION

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