



# Atlas™ UA

Atlas™ is the most test carbon fiber composite solution for the permanent repair and rehabilitation of pipelines and piping structures. Atlas™ UA is a new modification that further expands the capability of the Atlas repair family with a focus on reinforcing against axial based loading.

## APPLICATIONS

The Atlas™ UA system is most used for permanent reinforcement or repair of the following:

- Large circumferential corrosion, pitting, or crack-like features
- Vintage girth weld reinforcement in geographical hazardous environments
- Girth weld defects and manufacturing flaws
- Wrinkle Bends and other bending load scenarios



## BENEFITS:

- Installs in hoop direction, eliminates sagging and other installation issues compared to installing axial strips
- Flexible repair system can be installed on complex deformations and geometries and in areas of low clearance
- Can be installed over non-injurious hard spots and laminations with low installation risk, reducing the total repair length, cost and time required compared to steel sleeves

## TECHNICAL DATA

PROPERTY	CIRCUMFERENTIAL DIRECTION	AXIAL DIRECTION
Tensile Strength	1.585 ksi (10.93 MPa)	161.5 ksi (1.11 GPa)
Tensile Modulus	0.9 Msi (6.2 GPa)	14.29 Msi (98.5 GPa)
Ply Thickness	0.019" (0.48 mm)	
Glass Transition Temperature	216°F (102°C)	
Hardness	85	
Max Recommended Application Temperature	140°F (60°C)	
Shelf Life	24 months	

## CURING SCHEDULE

TEMPERATURE		SET TIME	CURE TIME
(C)	(F)	(HRS)	(HRS)
10	50	18	24
16	60	15	20
24	75	4	6
32	90	3.5	5
49	120	1.5	2

## REPAIR SYSTEM COMPONENTS

- Filler: EPN-101, EPN-242
- Primer: PPR-220, PPR-290
- Resin: SFE-206
- Fabric: FCB-240, FEB-530, FCU-700

**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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ISO 9001 Certified