

Family Brand	Product Name	Primary Use	Per Ply Thickness	Max Temperature	Fabric Description	Resin Description
Clock Spring™	Clock Spring	Metal loss and small deformations	0.075 in. (1.9 mm)	201°F (94°C)	Unidirectional (hoop) Fiberglass	Pre-cured Polyester
	Clock Spring HT			264°F (129°C)	Unidirectional (hoop) Fiberglass	High-temp pre-cured Vinyl Ester
	SnapWrap	Metal loss and small deformations with limited thickness availability	0.075 in. (1.9 mm)	201°F (94°C)	Unidirectional (hoop) Fiberglass	Pre-cured Polyester
	SnapWrap HT			264°F (129°C)	Unidirectional (hoop) Fiberglass	High-temp pre-cured Vinyl Ester
A+ Wrap™	A+ Wrap	Metal loss and small deformations including non-straight geometries	0.014 in. (0.35 mm)	194°F (90°C)	Bi-directional fiberglass	Moisture cured Polyurethane
	A+ Max		0.027 in. (0.69 mm)	194°F (90°C)	Tri-directional fiberglass	Moisture cured Polyurethane
Atlas™	Atlas	Large deformation and crack/crack-like features	0.017 in. (0.43 mm)	180°F (82°C)	Bi-directional carbon fiber	High-strength epoxy
	Atlas HT			450°F (232°C)	Bi-directional carbon fiber	High-temp epoxy
	Atlas UA	Circumferentially oriented crack-like features and axially dominated repairs	0.016 in. (0.41 mm)	180°F (82°C)	Unidirectional (axial) carbon fiber	High-strength epoxy
	Atlas UA HT			448°F (231°C)	Unidirectional (axial) carbon fiber	High-temp epoxy
Contour Apex™	Contour Apex	Metal loss and small deformations	0.042 in. (1.07 mm)	212°F (100°C)	Multidirectional Fiberglass	High-strength epoxy

NAPRAWY KOMPOZYTOWE

usuwalne wady

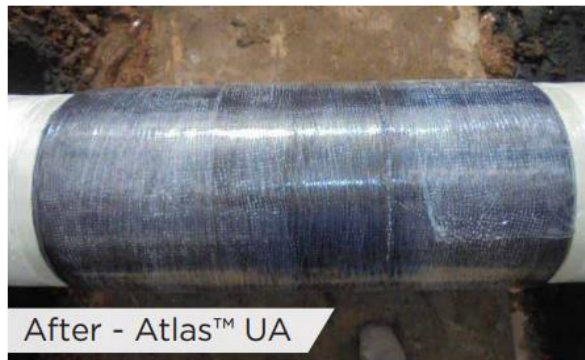
- Korozja / erozja
- Wgniecenia / Zgięcia zmarszczek
- Pęknięcia lub cechy podobne do pęknięć
- Wady spoin szwów i obwodowych
- Wady fabryczne
- Wyżłobienia / Utrata metalu

dla rurociągów

- Z wysokim ciągłym ciśnieniem
- Z liniami wysokiego ciśnienia cyklicznego
- Przy wysokich zakresach temperatur
- Naziemne lub w ziemi
- Linie podwodne
- Pod obciążeniem osiowym lub zginającym
- Geozagrożenia

Defect Type Overview	
Metal Loss:	Corrosion Internal wall loss Gouges Minor manufacturing defects Abrasion
Deformation:	Plain Dents Dents on weld Buckles Ovality concerns Wrinkle Bends (hoop)
Crack/Crack Like:	Seam-weld anomalies SCC Plain body cracks Laminations Severe manufacturing defects
Axial Dominated:	Girth weld anomalies Geohazards Bending loads Thermal cycling Wrinkle Bends (axial)

uszkodzenia



wgięcia



zgięcia, zmarszczenia na rurociągach



działanie czynników zewnętrznych (ziemia)



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DOŚWIADCZENIE



FACHOWE
DORADZTWO



PROFESJONALNE
WYKONAWSTWO



NAJLEPSZE
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