Transmission Pipeline Products



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
	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
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

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 anomolies SCC Plain body cracks Laminations Severe manufacturing defects				
Axial Dominated:	Girth weld anomolies Geohazards Bending loads Thermal cycling Wrinkle Bends (axial)				