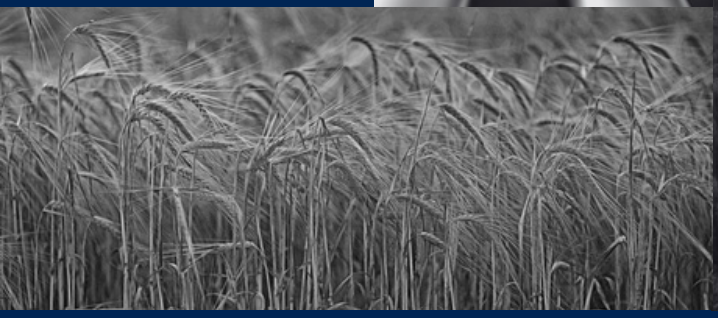
IN-LINE PIGGING SOLUTIONS

PRODUCT CATALOG

BEST QUALITY PRODUCT - BEST QUALITY PRODUCT -

Pipeline Repair Products & Installation

We are proud exclusive distributers of CSNRI® and Polyguard® products.



ABOUT US

In-Line Pigging Solutions is a trusted supplier of advanced pipeline repair systems and pigging equipment. We are proud to be the exclusive Canadian distributor of CSNRI® and Polyguard®, two of the most recognized names in pipeline integrity solutions. In addition to pipeline repair and coating products, we also supply a full range of pigging essentials, including pigs, temporary launchers and receivers, transmitters, and tracking tools that are carefully curated for performance, reliability, and ease of use in the field.

TRAINING & SUPPORT

Our commitment doesn't stop at product delivery. Whether you need hands-on service or want to build internal expertise, we ensure your team is equipped for long-term success. In-Line Pigging Solutions offers full installation support, including direct product application, as well as operator training and workforce certification programs.

LET'S WORK TOGETHER

Need support finding the right solution for your project? Contact our sales team and learn more about how we can support your pipeline integrity and maintenance goals.

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PRODUCTS

IN-LINE PIGGING SOLUTIONS

PIPELINE REPAIRS

In-Line Pigging Solutions is proud to offer the full suite of CSNRI products, delivering best-in-class composite repair solutions.

PIPELINE CASING SPACERS/HDD

Composite solutions for pipeline coating protection across HDD, cased pipe, thrust boring, direct pipe & microtunneling applications.

PIPELINE COATINGS

In-Line Pigging Solutions is proud to offer Polyguard pipeline coatings, known for industry-leading corrosion protection and long-term reliability.

PIPELINE REPAIRS

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A+ WRAP

PRODUCT DESCRIPTION

A+ Wrap and A+ Max are factory saturated, bi- directional fiberglass composite solutions for on-site permanent repair of corroded and dented pipelines. This repair product eliminates field saturation, resin and fabric measuring, and compressing installation time to provide the highest repair quality and efficacy.

CSNRI

A+ WRAP

+ Small diameter pipes
+ Soil-to-air interfaces
+ Corrosion and dents
+ Complex geometries

A+ MAX WRAP

+ Large pipes
+ Severe corrosion
+ Severe dents
+ Aggressive cyclic fatigue

COMPLIANCE

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

HIGHLIGHTS

+ Permanent repair with no disruption to pipeline operation during installation
+ Repair can land on areas where Type B sleeves cannot be welded
+ Ideal for laminations, metal loss, and thin wall pipe
+ Install, re-coat and backfill on the same day to save operators time and money
+ Easily applied on condensation and underwater
+ Conforms to any shape including elbows, tees, flanges and bends
+ In-line pigging solutions support for installation and training

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TECHNICAL DATA SHEET

A+ WRAP TECHNICAL DATA

PROPERTY	CIRCUMFERENTIAL DIRECTION		AXIAL DIRECTION	
	A+ Wrap	A+ Max	A+ Wrap	A+ Max
Tensile Strength	53.25 ksi (367 MPa)	65.31 ksi (450 MPa)	23.81 ksi (164 MPa)	12.67 ksi (87 MPa)
Tensile Modulus	3.68 Msi (25.4 GPa)	4.68 Msi (32.2 GPa)	1.75 Msi (12.1 GPa)	1.22 Msi (8.4 GPa)
Ply Thickness	0.014”	0.027”		
Glass Transition Temperature	260°F (126°C)			
Hardness	75			
Max Recommended Application Temperature	120°F (50°C)			
Shelf Life	24 months			

CURING SCHEDULE

(C)	(F)	SET TIME (HRS)	CURE TIME (HRS)
10	50	5.2	24
16	60	3.45	15
24	75	2.3	5.5
32	90	2	4.25
49	120	1	3

REPAIR SYSTEM COMPONENTS

Filler: EPN-101, ESN-202, EPN-242

Primer: PPR-220, PPR-290

Prepreg: AP-FP, APM-FP

COMPLIANT WITH

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

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PIPELINE REPAIRS

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ATLAS

PRODUCT DESCRIPTION

Atlas is the most tested carbon fiber composite solution for the permanent repair and rehabilitation of pipelines and piping systems. Engineered to restore pipelines to their original strength, Atlas addresses both common and complex anomalies, while ensuring full compliance with all relevant regulations, codes, and standards.

CSNRI

APPLICATIONS

+ External corrosion and pitting
+ Dents, gouges, and scratches
+ Weld defects and manufacturing flaws
+ Wrinkle bends and deformations
+ Cracks and conditional abnormalities

COMPLIANCE

+ US CFR 192 and CFR 195
+ API 579/ASME FFS-1
+ CSA Z662
+ ASME B31 standards
+ ISO 24817
+ ASME PCC-2 Article 401
+ PDAM
+ SAEP-345 (9Com approved)

HIGHLIGHTS

+ Permanent repair with minimal disruption to pipeline operation during installation
+ No hot works, increased safety compared to welding
+ Flexible repair system can be installed on complex geometries and low clearance areas
+ Can be installed over non-injurious hard spots and laminations with low install risk
+ Less time in the ditch for cost-effective installation and labor
+ Low installation risk, reducing repair length, cost and time compared to steel sleeves

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TECHNICAL DATA SHEET

ATLAS TECHNICAL DATA

PROPERTY	CIRCUMFERENTIAL DIRECTION	AXIAL DIRECTION
Tensile Strength	166.7 ksi (1.15 GPa)	19.9 ksi (137.2 MPa)
Tensile Modulus	9.81 Msi (67.6 GPa)	2.95 Msi (20.4 GPa)
Ply Thickness	0.017" (0.43mm)	
Glass Transition Temperature	216°F (102°C)	
Hardness	85	
Max Recommended Application Temperature	140°F (60°C)	
Shelf Life	24 months	

CURING SCHEDULE

(C)	(F)	SET TIME (HRS)	CURE TIME (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

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COMPLIANT WITH

+ US CFR 192 and CFR 195
+ API 579/ASME FFS-1
+ CSA Z662
+ ASME B31 standards
+ ISO 24817
+ ASME PCC-2 Article 401
+ PDAM
+ SAEP-345 (9Com approved)

PIPELINE REPAIRS

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CLOCKSPRING

PRODUCT DESCRIPTION

Clock Spring is a composite repair sleeve and reinforcement system, designed for high-pressure transmission pipelines. It consists of a pre-tensioned, pre-cured unidirectional e-glass composite coil, high-modulus filler, and a high lap-shear strength methyl methacrylate adhesive. Proven to withstand up to 8000 psi burst pressure, Clock Spring® has a 50+ year design life and over 30 years of field use, making it the industry's first permanent composite repair. Each 8-layer coil delivers greater failure pressure than pristine pipe and is engineered to restore structural integrity and permanently repair external anomalies. Suitable for metal loss up to 80% depth, deformation, mechanical damage, and mill defects. Available in 4" to 56" diameter kits.

CSNRI

APPLICATIONS

+ Corrosion
+ Gouges
+ Dents
+ Manufactured Defects

COMPLIANCE

+ US DOT CFR 192 and 195
+ CSA Z662
+ ASME PCC-2 Article 401
+ ISO 24817

HIGHLIGHTS

+ Installs without disrupting operations
+ Two hours to backfill from installation
+ Enhances short-term and long-term safety
+ Marking band system makes repairs visible to in-line inspection tools
+ No environmental hazards
+ Easy transportation to site and no special tools to install
+ No hot work or heavy lifting
+ Can be installed underwater
+ Available in high-temperature system

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TECHNICAL DATA SHEET

CLOCKSPRING TECHNICAL DATA

PROPERTY	VALUE
Nominal Thickness	0.065 inch (1.6 mm)
Complete 8-Layer System	0.5 inch (13mm)
Width	12 inch +/- 0.5 inch (305mm)
Lap Shear Strength	> 1,200 psi (8.27 MPa)
Compressive Strength	> 12,500 psi (86.18 MPa)

PROVEN HISTORY & LONG-TERM PERFORMANCE
Developed through a decade-long R&D program, Clockspring was the first composite repair system to gain widespread industry approval and is now recognized as the most tested, documented, and trusted solution of its kind. With more than 30 years of installation history across 75+ countries, Clock Spring has set the global standard for permanent composite pipeline repair.

CASE STUDY
In 1995, a major natural gas operator used Clock Spring® to repair a pipeline with 63% wall loss. The repair was completed in under an hour without needing to shut down the line. 25 years later, the same pipe section was exhumed and tested:

- Held 1.5× MAOP (1455 psi / 100.3 bar) for 5 minutes
- Failed at 2180 psi (150.3 bar), outside the repaired zone
- Maintained tensile strength of 90,000 psi

At Inline Pigging Solutions, we stand behind Clock Spring® as a proven, permanent repair solution, proven by decades of global field use and unmatched performance.

COMPLIANT WITH

+ US DOT CFR 192 and 195
+ CSA Z662
+ ASME PCC-2 Article 401
+ ISO 24817

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PIPELINE REPAIRS

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SNAPWRAP

PRODUCT DESCRIPTION

SnapWrap is a multi-layered system of high-strength, corrosion-resistant fiberglass that forms a composite split sleeve. Designed for repair and reinforcement in tight quarters, on pipes that are difficult to access, and subsea pipes, it is installed with a high-performance adhesive and filler material. The split sleeves are available in ¾-inch to 56-inch diameters and can be applied quickly and easily, even in challenging environments such as underwater, in splash zones, and on pipe racks with limited clearance.

CSNRI

APPLICATIONS

+ Tight access areas
+ Process piping
+ Subsea and offshore risers
+ Low-pressure lines <1,000 psi
+ Local distribution and terminal pipelines

COMPLIANCE

+ ASME B31G, B31.4 & B31.8
+ ASME PCC-2 Article 4.1, 4.2
+ API 570 Section 8.1.4
+ Non-welding Repairs (On-Stream)

HIGHLIGHTS

+ Eliminates unplanned down time
+ Extends the life of aging and corroding assets
+ Prevents future external corrosion
+ No pipe cutting or welding
+ No special tools to install
+ No environmental hazards
+ No hot work

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TECHNICAL DATA SHEET

SNAPWRAP TECHNICAL DATA

PROPERTY	VALUE
Nominal Thickness	0.065 inch (1.6 mm)
Complete 8-Layer System	0.5 inch (13mm)
Width	12 inch +/- 0.5 inch (305mm)
Lap Shear Strength	> 1,200 psi (8.27 MPa)
Compressive Strength	> 12,500 psi (86.18 MPa)
Shelf Life	12 months from manufacturing date (w. recommended storage conditions)

STORAGE

Shelf life is based on continuous storage between 50°F (10°C)- 72°F (22°C).
Keep container tightly closed. Store out of direct sunlight in a cool dry area.

TEMPERATURE	CONSIDERATIONS
32°F (0°C)	Do NOT Freeze
50°F (10°C) - 72°F (22°C)	**Recommended**
72°F (22°C) - 95°F (35°C)	Decreased shelf life
95°F (35°C)	Quickly Diminishes Reactivity

COMPLIANT WITH

+ US DOT CFR 192 and 195
+ CSA Z662
+ ASME PCC-2 Article 401
+ ISO 24817

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PIPELINE CASING SPACERS/HDD

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CASING SPACERS

PRODUCT DESCRIPTION

Casing Spacers are a unidirectional fiberglass sleeve sized for a specific pipe diameter to isolate pipe in casings. Casing Spacers are an extremely robust solution that eliminates traditional integrity issues that can occur when pipes are pulled through casings, protecting the pipe and coating from damage, preventing casing to pipe contact, and reducing construction time and future maintenance costs.

CSNRI

APPLICATIONS

+ Microtunneling
+ Any type of line pulling activity: highway, railroad & creek crossings
+ Bundled pull

COMPLIANCE

+ US DOT CFR 192 and 195
+ CSA Z662
+ ASME PCC-2 Article 401
+ ISO 24817

HIGHLIGHTS

+ Reduces pulling friction due to high lap shear strength of the methylmethacrylate adhesive
+ Each Casing Spacer unit can be installed in less than 30 minutes
+ Cured/pulled within two hours after the last unit is installed
+ Any abrasion during the pipe pull occurs at the outer layer of the sleeve instead of the coating of the carrier pipe
+ No environmental hazards or hot work permit required
+ Resistance to sliding prevents spacer bunching and cathodic protection shorts

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TECHNICAL DATA SHEET

CASING SPACERS TECHNICAL DATA

PROPERTY	VALUE
Nominal Thickness	0.065 inch (1.6 mm)
Tensile Strength	2,000 - 2,250 psi (13.8 MPa – 15.5 MPa)
Modulus	35,000 - 50,000 psi (241.3 MPa – 344.7 MPa)
Lap Shear Strength	>1,200 psi (8.27 MPa)
Service Temperature	180°F (82°C)
Compressive Strength	>12,500 psi (86.18 MPa)
Max Temperature	201°F (94°C)
Shelf Life	12 months

STORAGE

TEMPERATURE	CONSIDERATIONS
32°F (0°C)	Do NOT Freeze
50°F (10°C) - 72°F (22°C)	**Recommended**
72°F (22°C) - 95°F (35°C)	Decreased Shelf Life
95°F (35°C)	Quickly Diminishes Reactivity

COMPLIANT WITH

+ US DOT CFR 192 and 195
+ CSA Z662
+ ASME PCC-2 Article 401
+ ISO 24817

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PIPELINE CASING SPACERS/HDD

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ScarGuard

PRODUCT DESCRIPTION

Designed to protect field joint and mainline coatings from the mechanical stresses and scarring associated with horizontal directional drilling (HDD), thrust boring, direct pipe and micro-tunneling installation of pipelines. ScarGuard is a composite Abrasion Resistant Overcoat (ARO) comprised of fiberglass fabric and pre-impregnated flexible resin that is activated by water and cured within minutes. This sacrificial outer laminate system protects preapproved anticorrosion field joint coatings and mainline coatings such as FBE, liquid epoxies, shrink sleeves, and tapes.

CSNRI

APPLICATIONS

+ Horizontal Directional Drilling (HDD)
+ Thrust Boring
+ Microtunneling
+ Direct Pipe
+ Trenchless Pipeline Construction
+ Field Joints & Girth-Weld Joints
+ Mainline Coating Protection
+ Onshore and Offshore Pipelines

HIGHLIGHTS

+ Abrasion resistance for protecting coated pipes subjected to trenchless pipeline installation
+ Provides superior mechanical protection and high impact resistance
+ Non-shielding
+ Eliminates the need to re-pull pipe
+ Prevents gouging and coating damage to ensure future pipeline integrity
+ Prevents future external corrosion
+ Easily installed over field and factory applied coatings
+ Pre-impregnated moisture cured polyurethane resin means no field mixing or saturation required

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TECHNICAL DATA SHEET

SCARGUARD TECHNICAL DATA

PROPERTY	SCARGUARD	SCARGUARD XL	SCARGUARD E
Thickness	0.034 inch (0.86 mm)	0.013 inch (0.33 mm)	0.034 inch (0.86 mm)
Resin Type	MCU	MCU	Epoxy
Application Temperature	32°F-150°F (0°C-65°C)	32°F-150°F (0°C-65°C)	50°F-250°F (10°C-121°C)
Working Time @ 75 F (24°C)	12 minutes	25 minutes	65 minutes
Set Time @ 75 F (24°C)	30 minutes	45 minutes	150 minutes
Impact Resistance ASTM-G14 (100 mils)	421 in lb (47.6 J)	431 in lb (48.7 J)	192 in lb (21.7 J)
Abrasion Resistance ASTM D-4060 (cycles/mil)	1,667	1,467	3,333
Gouge Resistance Partech (50 kg load)	Pass	Pass	Pass
Shelf Life	18 months	18 months	18 months

STORAGE

Do not freeze. Shelf life is based on continuous storage between 50°F (10°C) and 72°F (22°C). Long term exposure above 72°F (22°C), will reduce the shelf life of these materials. Prolonged exposure above 95°F (35°C) quickly diminishes the reactivity of the product and should be avoided. Keep container tightly closed (do not open until ready to use). For industrial use only.

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PIPELINE CASING SPACERS/HDD

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X-WRAP

PRODUCT DESCRIPTION

Polyguard X-Wrap™ and X-Wrap™ HD are field-applied impact resistant outerwrap systems designed to protect field joint and mainline coatings from abrasion and mechanical damage during demanding construction activities. Engineered as a sacrificial outer layer, X-Wrap products provide reliable abrasion, gouge, and impact resistance, helping reduce coating damage, re-pulls, and post-installation repairs while supporting long-term coating performance in aggressive installation environments.

APPLICATIONS

+ Field joint and mainline coating protection
+ Abrasion Resistant Overlay (ARO) applications
+ Horizontal directional drilling (HDD)
+ Tunneling and bore installations
+ Aggressive soil and installation environments
+ X-WRAP™: Standard impact resistant outerwrap for general HDD and boring applications
+ X-WRAP™ HD: Heavy-duty option with enhanced mechanical protection in high-stress environments

COMPLIANCE

+ DOT
+ PHMSA

HIGHLIGHTS

+ Outstanding abrasion, gouge, and impact resistance
+ Smooth profile reduces damage during pulls and bores
+ Simple, consistent field application
+ Moisture-cured system with fast set times
+ No mixing, measuring, or resin spreading required
+ Non-shielding, allowing holiday detection verification
+ Non-hazardous formulation

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TECHNICAL DATA SHEET

X-WRAP TECHNICAL DATA

& X-WRAP HD (Heavy Duty)

PROPERTY	X-WRAP	X-WRAP HD
Thickness per layer	12 mils (305 µm)	34 mils (864 µm)
Resin Type	Moisture cured urethane	Moisture cured urethane
Application Temperature	32F - 150F (0C - 75C)	32F - 150F (0C - 75C)
Working Time	12 mins	12 mins
Set Time	25 mins	25 mins
Impact Resistance	CSA Z245.20, -30C, 3J, Pass	CSA Z245.20, -30C, 3J, Pass
Taber Abrasion Resistance	868 cycles/mil, (34.2 µm)	1125 cycles/mil, (44.4 µm)
Gouge Resistance, 50kg	25.7 mils, 25.8% of coating thickness	15.3 mils, 11.1% of coating thickness
Flexibility	1.5 degree/PD	1.5 degree /PD
Storage (Do not freeze)	Unopened in cool area (72F)	Unopened in cool area (72F)
Shelf Life	12 Months	12 Months

COMPLIANT WITH

+ DOT
+ PHMSA

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PIPELINE COATINGS

IN-LINE PIGGING SOLUTIONS

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RD-6

PRODUCT DESCRIPTION

Polyguard RD-6 is a non-shielding anti-corrosion coating system designed for use on buried and submerged line pipe, rehabilitation projects, and new construction girth welds. The system consists of a liquid adhesive, a geotextile-backed protective coating, and an SP-6 outer wrap. Corrosion protection is provided by a polymer-modified coating layer, which is bonded to a strong, tightly woven polypropylene geotextile fabric to deliver non-shielding performance, high breaking strength, and low elongation.

APPLICATIONS

+ Buried pipelines
+ Submerged pipelines
+ Rehabilitation projects
+ New construction girth welds
+ For pipelines operating up to 145°F (63°C)
+ Pipes operating above 145°F require RD-6 HT
+ It can also be applied above ground when protected with the RD-6 UV overcoat

COMPLIANCE

+ NACE SP0109-2023
+ ANSI/AWWA C233-24
+ CSA Z245.30:22
+ ISO 21809-3

HIGHLIGHTS

+ Non-shielding coating
+ Fast & efficient no cure application
+ Resistant to soil stress
+ Resists disbondment from pipe even if surface is less than perfect
+ Allows for immediate backfill
+ Factory controlled thickness

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TECHNICAL DATA SHEET

RD-6 TECHNICAL DATA

PROPERTY	ASTIM METHOD	TYPICAL RESULTS
Total Thickness (single layer)	D1000	1.27mm (0.05")
Breaking Strength	D1000	193 N/10mm W (110lb F/ " W)
Elongation at Break (%)	D1000	< 30%
Water Vapor Transmission	E96 procedure B	0.006 g/h m^2 (0.009 grains/h ft^2)
Cathodic	G8	< 5mm radius (0.197" radius)
Disbondment	G42	< 10mm radius (0.4" radius)
Non-shielding Properties	Internal Polyguard	Pass (non-shielding)
Dielectric Strength	D149	> 12KV: 9.45 V/µm (> 12 KV: 240 V/mil)
Adhesion to Primed Surface	D1000 Method A	35 N/10mm width (20lb F/ " W)
Adhesion to Polyethylene	D1000 Method A	28 N/10mm width (16lb F/ " W)
Impact Resistance	G14	2.6 g/cm (23"/lb)

Does not shield cathodic protection currents

COMPLIANT WITH

+ NACE SP0109-2023
+ ANSI/AWWA C233-24
+ CSA Z245.30:22
+ ISO 21809-3

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PIPELINE COATINGS

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WAX WRAP

60A (Above Ground) & 60U (Below Ground)

PRODUCT DESCRIPTION

PG Wax Wrap is a petroleum-based corrosion protection system engineered for above-ground (60A) and below-ground (60U) pipeline applications. The system provides long-lasting protection by sealing out moisture while remaining flexible enough to accommodate substrate movement and vibration. Designed for use in demanding field conditions, PG Wax Wrap performs reliably on wet or dry surfaces and allows projects to be backfilled and returned to service immediately after application.

APPLICATIONS

+ Above-ground pipelines (60A)
+ Below-ground pipelines (60U)
+ Valves, flanges, fittings, street tees
+ Vaults, tunnels, bridge crossings
+ Irregular shapes and confined spaces

COMPLIANCE

+ AWWA C217
+ NACE SP0375-2024

HIGHLIGHTS

+ Long-term corrosion protection for steel pipelines & infrastructure
+ Flexible, pliable system that absorbs movement & vibration
+ Zero cathodic disbondment
+ No cure time & immediate backfill
+ VOC-free, non-hazmat, odorless
+ Easily conforms to irregular surfaces
+ Resistant to water, salts, acids, and chemicals
+ Performs in extreme and humid environments

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TECHNICAL DATA SHEET

WAX WRAP TECHNICAL DATA

60A (Above Ground) & 60U (Below Ground)

PROPERTY	60A (ABOVE GROUND)	60U (BELOW GROUND)
Thickness	60 mils	60 mils
Dielectric Strength	404 volts/mil	296 volts/mil
MVR	0.0045 g/h ft^2	0.0030 g/h ft^2
Application Temperature	40F - 175F	-40F - 175F
Operating Temperature	-50F - 175F	-50F - 175F
Drop Melt Point	184F	179F
Flash Point	525F	538F
Salts Test	No visible effect	
UV Test	No visible material degredation	
Chemical resistance	No effect on material	
Color	Grey	Brown

COMPLIANT WITH

+ AWWA C217 Standard
+ NACEE0375-2024

PACKAGING

+ 4"x9' rolls (24 per case) =72ft^2 coverage | 50% overlap=36ft^2
+ 6"x9' rolls (16 per case) =72ft^2 coverage | 50% overlap=36ft^2
+ 9"x18' rolls (6 per case) =81ft^2 coverage | 50% overlap=40ft^2
+ 12"x18' rolls (4 per case) =72ft^2 coverage | 50% overlap=36ft^2

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PIPELINE COATINGS

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HT WAX WRAP

High Temperature

PRODUCT DESCRIPTION

HT Wax Wrap is a petroleum-based, non-woven corrosion protection system designed for high-temperature pipeline and infrastructure applications. The wrap remains pliable across extreme temperature ranges, conforms easily to irregular geometries, and provides long-term external corrosion protection without harsh odors or hazardous materials. Formulated to perform in wet, humid, and high-vibration environments, PG HT Wax Wrap allows for immediate backfill and rapid return to service, minimizing downtime and field exposure.

APPLICATIONS

+ Midstream oil & gas transmission pipelines
+ Water and wastewater pipelines
+ Valves, flanges, fittings, bolts
+ Tunnels, vaults, bridge crossings
+ Production facilities and irregular spaces

COMPLIANCE

+ AWWA C217
+ NACE SP0375-2024

HIGHLIGHTS

+ Designed for high operating temperatures up to 250°F (121°C)
+ Remains flexible in cold weather and extreme ambient conditions
+ Zero cathodic disbondment
+ No cure time for immediate backfill and service return
+ VOC-free, non-hazmat, odorless formulation
+ Easily conforms to irregular shapes and complex geometries

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TECHNICAL DATA SHEET

HT WAX WRAP TECHNICAL DATA

High Temperature

PROPERTY	
Thickness	70 mils (1.8mm)
Dielectric Strength	305 volts/mil
Water Vapor Permeability Rate	0.0024 perms | 40F-175F
Application Temperature	0F - 250F
Operating Temperature	-50F - 260F
Drop Melt Point	260F
Flash Point	538F
Cathodic Disbondment Testing	No cathodic disbondment
Color	Red

COMPLIANT WITH

+ AWWA C217 Standard
+ NACEE0375-2024

PACKAGING

+ 9"x18' rolls (6 per case) =81ft^2 coverage | 50% overlap=40.5ft^2

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polyguard

APPROVED
COMPOSITE REPAIRS
CANADA

IN-LINE PIGGING SOLUTIONS

CSA PERMANENT REPAIRS

Corrosion defect <80% of the nominal wall thickness of the pipe

- Where internal corrosion growth has not been arrested, the determination of the repair method shall include a CSNRI engineering assessment that considers corrosion abatement effectiveness and the inspection interval.

Gouge, groove, or arc burn <80% of the nominal wall thickness of the pipe

- The stress concentrator (gouge, groove, arc burn, or crack) shall be removed by grinding prior to the CSNRI composite repair install.

Dent defect not on a circumferential weld

- Dent depth must be no more 15% of the outer diameter
- Stress Concentrators must be removed prior to the CSNRI composite repair install.

Pipe body surface crack < 80% of the nominal wall thickness of the pipe

- The stress concentrator (gouge, groove, arc burn, or crack) shall be removed by grinding prior to the CSNRI composite repair install.
- Cannot be in a dent
- Grind defect <80% of the nominal wall thickness of the pipe.

CSA TEMPORARY REPAIRS

Temporary Repairs are based on a CSNRI engineering assessment

- The assessment shall consider the type of service, the nature and extent of the defect, the material properties, and the class location. The assessment shall indicate the inspection method(s) and interval, the period of time for which the temporary repair shall be used, and any reductions necessary to the normal operating pressure. A record containing engineering assessment information for the temporary repair shall be kept for as long as the repair remains in service.

Composites can be used as a temporary repair for ripples, wrinkles, buckles, cracks & anomalies

- This should only be done if proper testing and sound engineering can be provided and extrapolated out to the designs design life
- These repairs can provide a design life and if the repairs ever change to permanent within CSA Z662, they can be reevaluated for permanency

RECOMMENDED PRODUCTS

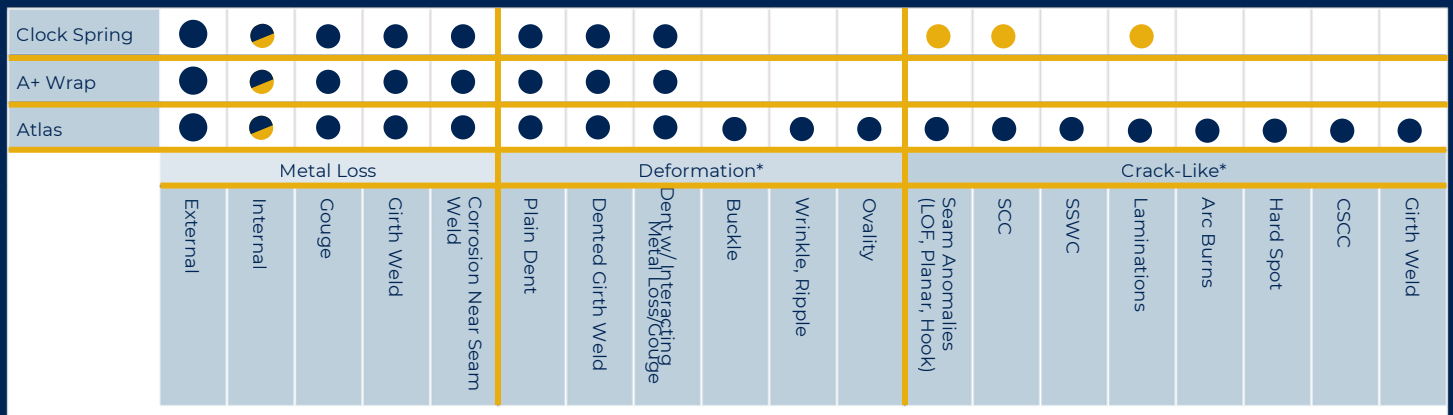
IN-LINE PIGGING SOLUTIONS

PIPELINE REPAIR PRODUCTS BY CSNRI

Family Brand	Product Name	Defects Addressed	Additional Benefits	Per Ply Thickness	Max Temperature	Fabric Description	Resin Description
Clock Spring	Clock Spring	Metal loss and small deformations	Pre-Engineered for most defects	0.0625 in. (1.6 mm)	201°F (94°C)	Unidirectional Fiberglass 8 layers in one coil	Pre-cured Polyester
	SnapWrap		Installed with limited site access			Unidirectional Fiberglass Applied 1 layer at a time	
A+ Wrap	A+ Wrap	Metal loss and small deformations	Fast and easy on small diameters	0.014 in. (0.35 mm)	194°F (90°C)	Bi-directional fiberglass	Moisture-cured Polyurethane
	A+ Max		Intended for large diameters	0.027 in. (0.69 mm)		Tri-directional fiberglass	
Atlas	Atlas	Large deformation and crack/crack-like features	Focus on reducing hoop stress in pipe	0.017 in. (0.43 mm)	180°F (82°C)	Bi-directional carbon fiber	High-strength epoxy
	Atlas MT				331°F (166°C)		
	Atlas UA	Axial Dominated, large deformations, crack & crack like	Focus on reducing axial stress in pipe	0.016 in. (0.41 mm)	180°F (82°C)	Unidirectional (axial) carbon fiber	

DEFECT TYPE OVERVIEW	
Metal Loss:	Corrosion | Internal wall loss | Gouges | Minor manufacturing defects | Abrasion
Deformation	Plain Dents | Dents on weld | Dent with wall loss | Buckles | Ovality concerns | Wrinkle Bends (hoop)
Crack / Crack Like:	Seam-weld anomalies | SCC | Plain body cracks | Laminations | Severe manufacturing defects | SSWC | Hard Spot | Arc Bur
Axial Dominated	Girth weld anomalies | CSCC | Geohazards | Bending loads | Thermal cycling | Wrinkle Bends (axial)

PIPELINE DEFECT MATRIX



*Permanency is dependent on defect size and cyclic profile

● Permanent (50+ years) ● Temporary ◒ Permanent only if defect is mitigated

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IN-LINE PIGGING SOLUTIONS

TRUSTED SOLUTIONS SINCE 2003

In-Line Pigging Solutions is your trusted partner for ensuring the safe and reliable flow of energy across North America.
Whether you need pipeline repair products, specialized field support, or full turnkey project management, our team will provide efficient, safety-focused solutions tailored to every stage of your project.

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