ADVANCED COMPOSITE WRAP SOLUTIONS FOR PIPELINE REPAIR & REINFORCEMENT

DEACON® sets the standard for excellence—delivering premium products and unmatched service to ensure superior performance and reliability. Our expert team understands industry challenges and delivers innovative solutions. We offer responsive, expert training and on-site support to keep your operations running smoothly.

Built to withstand extreme temperatures, pressures, and harsh chemicals, DEACON® ROCKET WRAP® is a cutting-edge repair and reinforcement system for pipelines that ensures superior durability. Engineered for efficiency, DEACON ROCKET WRAP reduces overall project costs, enhances operational performance, and extends pipeline life.

DEACON ROCKET WRAP

DEACON ROCKET WRAP offers a comprehensive carbon fiber wrap solution for pipelines. The heavy industrial carbon fiber offers unique repair properties, resulting in minimal to zero downtime, no demolition, and no new permitting.

DEACON ROCKET WRAP is ASME PCC-2 and ISO 24817 certified and conforms to API-653, DOT and ASME B31 standards.

Pipeline Applications:

- External Corrosion Mitigation
- Internal Erosion Strengthening
- Dents and Wrinkle Bend Reinforcement
- Crack Repair
- Seam and Girth Weld Imperfections
- Manufacturer Defects
- Gouges and Metal Loss
- Coating Protection

Pipeline Capabilities:

- Withstands High Sustained and Cyclical Pressures and Temperatures
- Suitable for Both Above-Ground and Buried Installations - near or Underwater Lines
- Resilient Under Axial and Bending Loads
- Adapted for Geohazard-Prone Areas

DEACON ROCKET WRAP TEST RESULTS:

ASME PCC-2 Qualification Data – Stress Engineering Services Inc. (Houston, TX)

TEST	DETAILS	TEST TEMP	TEST STANDARD	RESULTS	MEETS SPECIFIED MINIMUM REQUIREMENTS *(Yes/No/No Min Specified)*
Ply Thickness	—	—	—	0.026 inch	No Min Specified
Tensile Strength	Hoop	73°F (23°C)	ASTM D 3039	96,000 psi	No Min Specified
Ultimate Tensile Strain	Hoop	73°F (23°C)	ASTM D 3039	2.63%[1]	Yes (>1%)
Modulus	Hoop	73°F (23°C)	ASTM D 3039	6,210,000 psi	No Min Specified
Tensile Strength	Axial	73°F (23°C)	ASTM D 3039	49,890 psi	No Min Specified
Ultimate Tensile Strain	Axial	73°F (23°C)	ASTM D 3039	1.16%[2]	Yes (>1%)[2]
Modulus	Axial	73°F (23°C)	ASTM D 3039	3,740,000 psi	No Min Specified
Poisson's Ratio	Hoop	—	ASTM D 3039	0.033	No Min Specified
Hardness	Barcol	—	ASTM D 2583	46	No Min Specified
CTE	Hoop	77°F to 122°F (25°C to 50°C)	ASTM E 228	20.37 µm/m·°C	No Min Specified
	Axial			20.81 µm/m·°C	
	Load Transfer Material			61.79 µm/m·°C	
Heat Distortion Temp	Matrix	—	ASTM D648-18	514°F (268°C)	No Min Specified
Compressive Modulus	Load Transfer Material	73°F (23°C)	ASTM D695-15	520,000 psi	No Min Specified
Shear Modulus	Matrix	73°F (23°C)	ASTM D5379-19	371,000 psi	No Min Specified
Lap Shear Adhesion	Adhesive Strength	73°F (23°C)	ASTM D3165	3,524 psi	Yes (>580 psi)
Short-Term Pipe Spool Survival Test	70% Wall Loss Defect	Room Temp	ASME PCC-2-2018 Mandatory Appendix 401-III	Survived	Yes (Test Pressure Reached)

Maximize uptime. Minimize costs. Choose DEACON ROCKET WRAP for your pipelines.

Contact Us
972.771.1000

Learn more: jetlube.com/pipe-wrap

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