



ENGINEERED CARBON FIBER COMPOSITE REPAIR SYSTEM



DEACON® ROCKET WRAP® is a revolutionary repair solution for internal and external corrosion, erosion, stress cracking, direct leaks, soft spots, microbial-induced corrosion (MIC), and general industrial leak repair. Crafted with precision engineering, Rocket Wrap products are built to endure extreme temperatures, pressures, and harsh chemicals. Rocket Wrap is a seamless, all-in-one fix for a diverse range of industrial needs. With minimal to zero downtime and no demolition or new permits required, it's the ultimate time and money-saving solution for your repair needs.



BENEFITS:

- ASME PCC-2 and ISO 24817 Certified
- Meets API-653, DOT, and ASME B31 Standards
- Low Thermal Expansion
- Extreme Chemical Resistance
- High Tensile Strength
- High Temperature Tolerance
- High Strength-to-Weight Ratio
- Substantial Cost-Savings of 80% vs. Replacement
- Permanent Solutions
- Custom Engineered Solutions
- Conforms to Odd Geometry
- Specially Formulated Proprietary Blend Epoxy
- Reinforces Structures Beyond Original Capacity
- Mitigates Environmental Damage due to Material Loss

APPLICATIONS:

- Process Piping
- Tanks
- Pipelines
- Silo Reinforcement & Repair
- Concrete Structural Repair
- Support Columns & Beams

MAX SERVICE:

- Type A = 487°F (253°C)
- Type B = 469°F (243°C)



ROCKET WRAP PRODUCT LINE:

Deacon® Rocket Filler

Two-Part Epoxy used to fill pits and build smooth transitions.



Deacon® UV Top Coat

Two-Part UV Resistant Paint used to protect epoxies and composite wrap system.



Deacon® Rocket Primer

Two-Part Epoxy used to promote adhesion between substrate and fabric.



Deacon® Rocket Repair Kit

Pre-Measured Carbon Fiber, Saturant, Primer, and Accessories.



Deacon® Rocket Saturant

Wet-Out Two-Part Epoxy for fabric.



Deacon® Diamond Putty

Fast-Setting Steel Reinforced Putty Stick used for repairs.



Deacon® Rocket Fabric

Woven Carbon Fiber provides durable and lightweight composites for long-term structural repair and reinforcement.



Deacon® Booster Kit

Saturant, Booster Powder, and Accessories used to build large transitions over flanges or leak sealing clamps.



Deacon® Jacket Wrap

Plastic Compression Film ensures fabric is securely compacted around the repair area.



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)

