



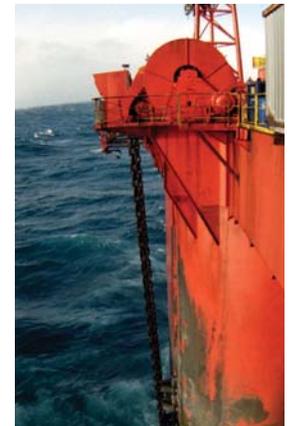
Offshore Oil & Gas

**24-Hour Emergency Support
1-Day Turnaround for Custom Sizes**

CIP Composites are laminated polymer materials made by impregnating textiles with thermosetting resins. Solid lubricants are added to the resin to provide evenly dispersed lubrication throughout the material, eliminating the need for external lubrication. Ideal for replacing greased bronze, CIP Composites can be easily installed by press fitting or freeze fitting with the ability to machine in place.

Common Applications

- Launch & Recovery (LARS)
- Riser Tensioners
- Pipe Handling Tools
- Pipe Stacking Tools
- FPSO Mooring Systems
- CALM Buoy
- Chain Jack
- Fairleads
- Sheaves
- Chain/Hawser Guards
- Jack Lift
- Skidding System
- Windlass
- Cranes
- Deck Equipment



Benefits: environmentally friendly • self-lubricating • nonconducting • manufactured to specification • light weight • low coefficient of friction • stable in many chemical solutions • common installation (press, bonding, freeze, or fasten) • easy to machine • extended operating life • low thermal expansion rate • negligible water swell • nonmetallic • eliminates greasing systems • wet or dry running • manufactured in the United States

One Group, One Location, Reaching Globally

www.CIPComposites.com

Standard Shapes

Tubes

Minimum Bore	1/2 in. (13 mm)
Maximum Bore	65 in. (1651 mm)
Standard Lengths	16 in. – 24 in. – 32 in. (406 – 610 – 813 mm)

Sheets

Minimum Thickness	1/8 in. (3 mm)
Maximum Thickness	6 in. (152 mm)
Standard Widths	16 in. – 24 in. – 32 in. (406 – 610 – 813 mm)
Standard Lengths	24 in. – 36 in. – 48 in. – 60 in. (610 – 914 – 1219 – 1524 mm)

Custom Products

CIP offers a fully equipped machine shop on location ready to meet your needs. Components can be manufactured to customers' drawings.



Physical Properties

Compressive Strength

Ultimate 50,000 PSI (345 MPa)

Yield 15,000 PSI (103 MPa)

Tensile Strength 11,000 PSI (75 MPa)

Rockwell Hardness 100 M

Density .047 lbs/in³ (1.3 g/cm³)

Water Swell <0.15%

Operating Temperatures

CIP 100/200 Series -40° to 200°F (-40° to 93°C)

CIP 300 Series -40° to 400°F (-40° to 204°C)



CIP is dedicated to providing the highest quality products with a focus on exceeding requirements. We strive for complete customer satisfaction through continuous improvement in service and quality.

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