



BOEDEKER PLASTICS, INC.



Solutions for the Pump Industry | CIP Composites™

Bearing & Wear Materials | Ideal for Replacing Bronze

Formulated for High Load | Low Speed Applications



CIP For Pump Applications

CIP Composite bearings offer improved pump efficiency and increased mean time between repair (MTBR) in bronze replacement applications in various pump types, including: vacuum, axially split, mud, sump, and vertical pumps. Boedeker Plastics, Inc. offers CIP Composites in an array of different textile, lubricant and resin combinations. We can determine the best combination based on your application criteria.

Advantages

- Self-lubricating
- High compressive strength (50,000 psi)
- High load capacity and shock load resistant
- Low friction / Low wear
- Nonabrasive to mating surfaces
- Light Weight (1/6th of bronze)
- Stable in fresh or salt water environments
- Low moisture absorption
- Temp. range -40°F to 400°F
- 100% bearing material
- Made in the USA

Pump Applications

- Sleeve Bearings
- Flange Bearings
- Wear Rings
- Custom Parts



Water-lubricated Pump Bearing

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904 WEST 6TH STREET, SHINER, TX 77984 | 800.444.3485 | WWW.BOEDEKER.COM | RFQ@BOEDEKER.COM

CIP STANDARD SIZES & PROPERTIES

Standard Shapes

Tubes

Minimum Bore	1/2 in. (13 mm)
Maximum Bore	60 in. (1524 mm)
Standard Lengths	16 in. – 24 in. – 32 in. (406 mm – 609 mm – 812 mm)

Sheets

Minimum Thickness	1/8 in. (1.6 mm)
Maximum Thickness	6 in. (152 mm)
Standard Widths	16 in. – 24 in. – 32 in. (406 mm – 609 mm – 812 mm)
Standard Lengths	24 in. – 36 in. – 48 in. – 60 in. (609 mm – 914 mm – 1219 mm)



Specializing in large diameters



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/in ³ (1.3 g/cm ³)
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)



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