

WearComp®

Carbon Fiber Composite Solutions

Saint-Gobain HyComp, LLC

HyComp®

INDUSTRIAL APPLICATION: EXTRUSION & FORGING EQUIPMENT

Customer Challenge

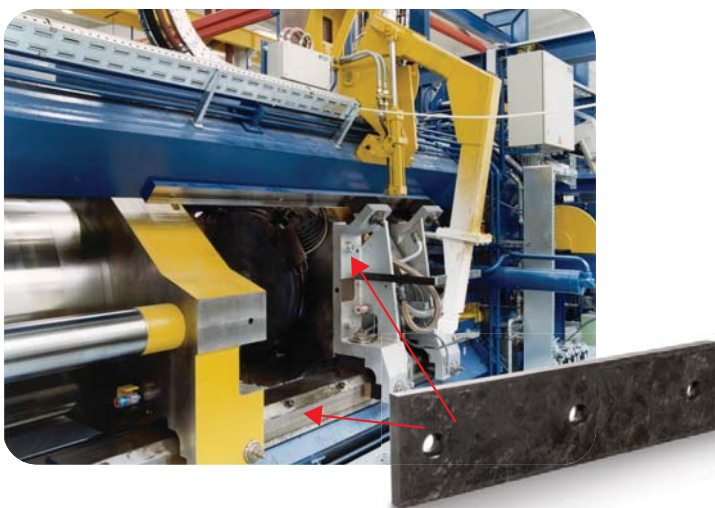
*Equipment Damage,
Downtime & Safety*

- A misaligned press or drop hammer will damage equipment and negatively affect output.
- Basic wear components such as liners and bushings are on the front line of defense against unexpected maintenance outages.
- Excessive lubrication builds up around the machine, which can get on the work piece and create an unsafe environment for the employee.

Our Solution

*WearComp® Carbon Fiber
Composite Bearings*

- 4 to 10 times longer service life compared to bronze
- Self-lubricated bearing surface reduces cost and helps satisfy 5S cleanliness initiatives
- 600°F (316°C) continuous operating with spikes to 1,000°F (538°C)
- Excellent dimensional stability & high impact resistance (Zero Creep)



Saint-Gobain HyComp, LLC

BST-6000-WCACS-0819

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Critical parts
making THE difference



PRECISE
FIT

LIFETIME
CONFIDENCE

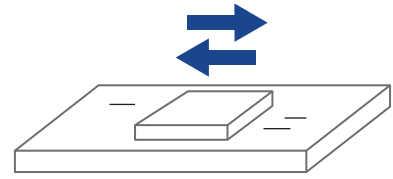
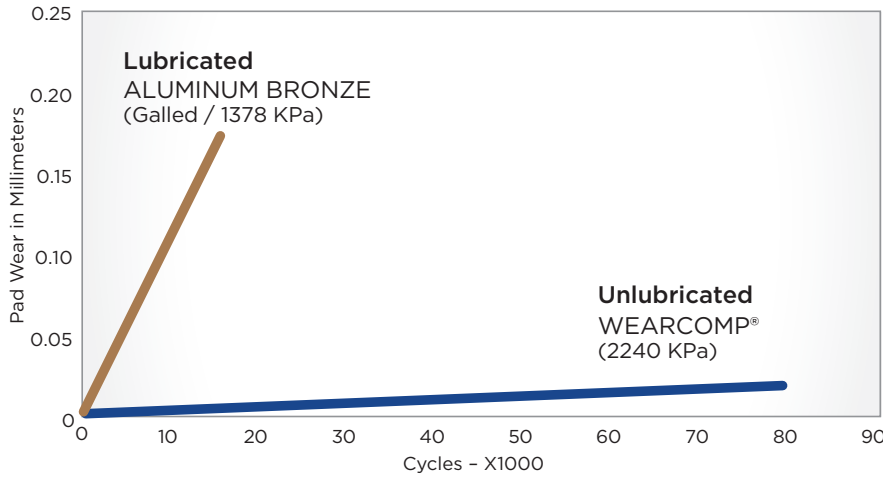

SAINT-GOBAIN

WearComp® Material: Wear and Mechanical Test Data



Testing results prove our material outperforms lubricated bronze and metallic plain bearing materials.

RECIPROCATING WEAR TESTING

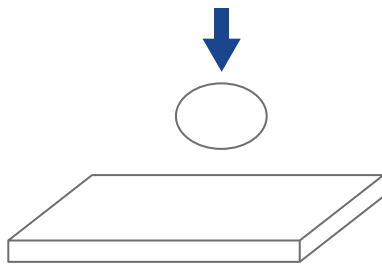


Reciprocating wear tester (50mm stroke, load 1378-2240 KPa)

DYNAMIC COEFFICIENT OF FRICTION

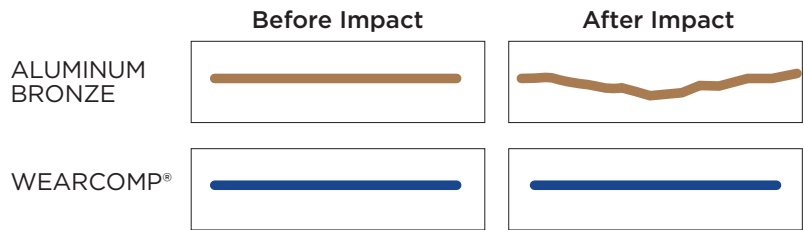
Material	Value
ALUMINUM BRONZE	.44
WEARCOMP®	.15 - .25

Impact Data



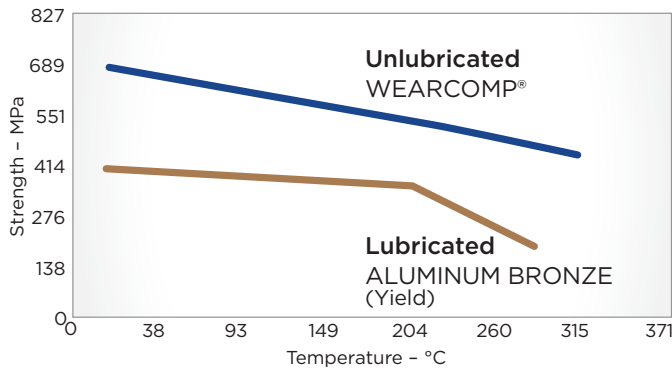
Falling ball impact test (1.36 Kgs ball dropped from 2.28 Mtrs)

SURFACE PROFILE

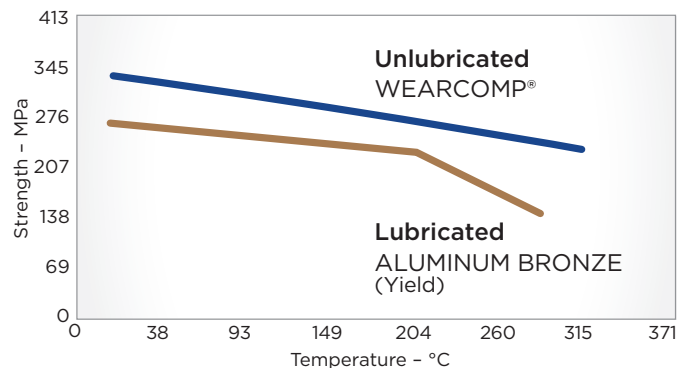


Material	Impact Energy (Mtrs Kgs)	Rebound (Mtrs)
ALUMINUM BRONZE	3.10	0.45
WEARCOMP®	3.10	1.37

COMPRESSIVE STRENGTH



TENSILE STRENGTH COMPARISON



Engineered Plastic Solutions™

Engineering | Custom Fabrication | Manufacturing

1.800.874.7827

www.tstar.com



www.hycompinc.com

CREEP UNDER LOAD

WearComp®	Pressure (MPa)	Disformation %
23°C	103.42	.38
204°C	103.42	1.16