



Product Data Sheet: WCB 001

PRODUCT DESCRIPTION

WCB 001 is a rigid molded *Non-Asbestos, Graphitic* material suitable for use in *Medium/High Friction* brake/clutch applications in a wide variety of equipments, especially in water cooled brakes with copper mating surface. WCB 001 is non-corrosive, smooth, non-abrasive and keeps the interface temperatures down on brakes. It can be molded into wide range of shapes and sizes to satisfy virtually all industrial applications.

CHARACTERISTICS

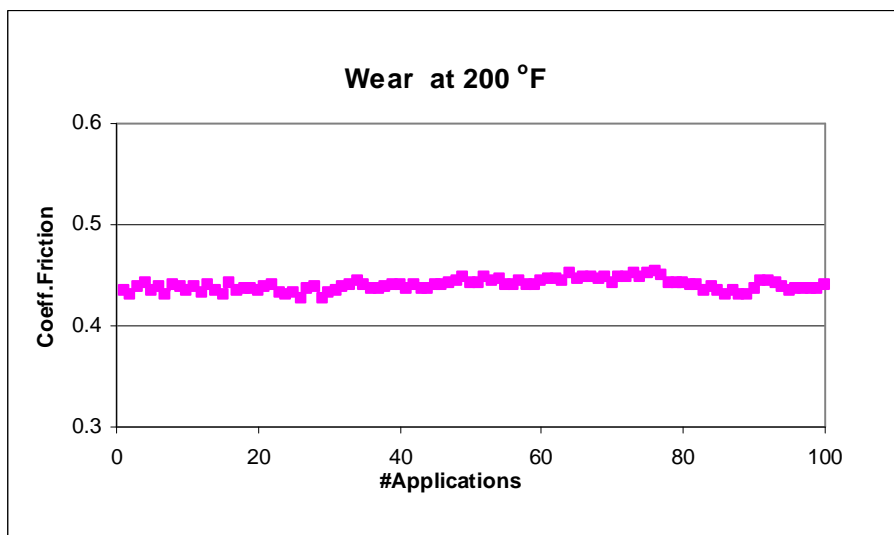
- Exceptional dimensional stability
- Extremely low noise operation
- Excellent corrosion resistance
- Excellent wear rate.
- High tensile strength

FRICTIONAL PROPERTIES

Coefficient of Friction at 200 °F	: 0.42
Wear Rate (inch ³ /hp-hr)	: 0.001 _{max.}
Maximum Operating Limits:	
Rubbing Speed**	: 10000 fpm
Pressure**	: 2000 psi
Drum Temperature for Constant Operation**	: 400°F

MECHANICAL PROPERTIES

Specific Gravity (SAE J380)	: 1.55
Shore Hardness (ASTM D2240)	: 78
Tensile Strength, PSI (ASTM D638)	: 2866 _{min.}



Wear Test Parameters: Speed 411 RPM, Load 150 LB, Temperature 200°F, Cast Iron drum Diameter 278 mm

*Note 1. – Friction values shown are for guide purposes only since values deviate with changes in temperature, pressure and speed. Practical design should include a 25 to 50 percent safety factor.

**Note 2. – Rubbing speed, drum temperature, and pressure are directly related. Changing any one value will change the others. The values shown represent typical conditions, but are not the ultimate limits of the material.