



Product Data Sheet: WCB 002

PRODUCT DESCRIPTION

WCB 002 is a rigid molded *Non-Asbestos, Graphitic* material suitable for use in *Low Friction* brake/clutch applications in a wide variety of equipments, especially in water cooled brakes with copper mating surface. WCB 002 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

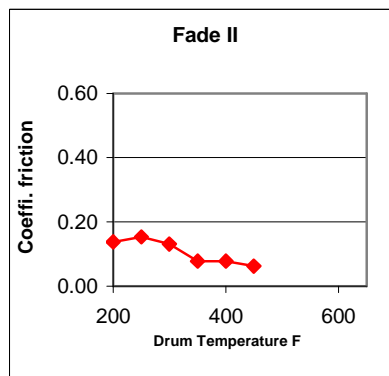
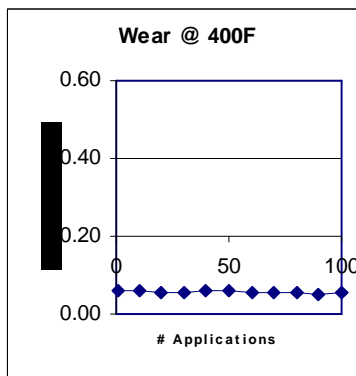
MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 1.55
 Shore Hardness (ASTM D2240) : 74
 Tensile Strength, PSI (ASTM D638) : 2866_{min.}

FRICTIONAL PROPERTIES

Coefficient of Friction (SAE J661):
 Normal* : 0.13
 Hot* : 0.07
 Wear Rate (SAE J661)
 (inch³/hp-hr) : 0.003
 Friction Code : CC
 Maximum Operating Limits:
 Rubbing Speed** : 7500 fpm
 Pressure** : 2000 psi
 Drum Temperature for
 Constant Operation** : 400°F

SAE J661A TEST CURVES



600	0.052
500	0.053
400	0.05
300	0.076
200	0.153

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.