

Product Data Sheet: Gemini Woven (GEM)

PRODUCT DESCRIPTION

GEM is a *Non-Asbestos* woven product for heavy-duty industrial applications. It exhibits nearly constant friction level up to 500 °F. It also shows full recovery by 400 °F. GEM can be used on wet/dry band brakes for industrial use where medium to high friction is required. The product is available in roll form, flat sheet, and custom shapes.

CHARACTERISTICS

- High Static friction
- Uniform friction
- Non-ferrous metallic
- Immediate and complete recovery
- Good wear rate

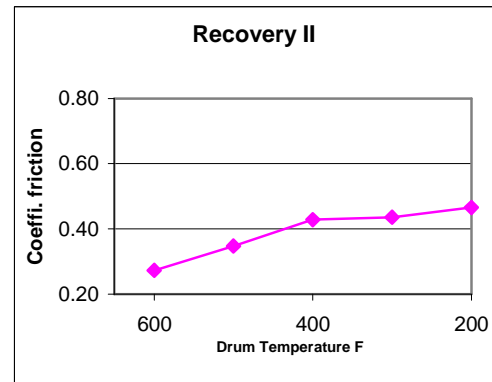
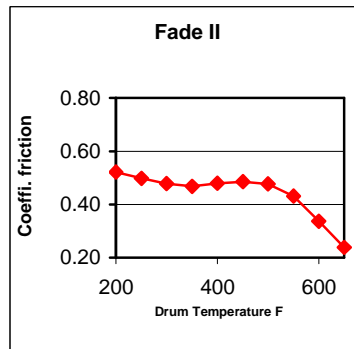
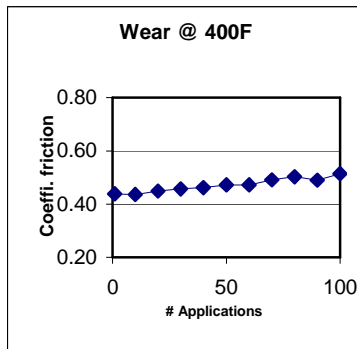
MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 1.12
 Tensile Strength, PSI (ASTM D638) : 1500 min

FRICTIONAL PROPERTIES

Coefficient of Friction (SAE J661):
 Normal* : 0.49
 Hot* : 0.40
 Wear Rate (SAE J661)
 (inch³/hp-hr) : 0.006_{max}
 Friction Code : GF
 Maximum Operating Limits:
 Rubbing Speed** : 5000 fpm
 Pressure** : 200 psi
 Drum Temperature for
 Constant Operation** : 550°F

SAE J661A TEST CURVES



*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.