



## Product Data Sheet: GEM 301

### GENERAL DESCRIPTION

**GEM 301** is a rigid molded *non-asbestos* friction material suitable for use up to 23K brake applications. GEM 301 is smooth, extremely easy on the mating surfaces and keeps the interface temperatures down.

### FEATURES

- Exceptional dimensional stability
- Extremely low noise operation
- Non-Abrasive
- Excellent wear rate.

### MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 1.90

Gogan Hardness (SAE J379A) : 19-22

### FRICTIONAL PROPERTIES

Coefficient of Friction (SAE J661):

Normal\* : 0.33

Hot\* : 0.35

Wear Rate (SAE J661)

(inch<sup>3</sup>/hp-hr) : 0.007<sub>max</sub>

Friction Code : EE

Maximum Operating Limits:

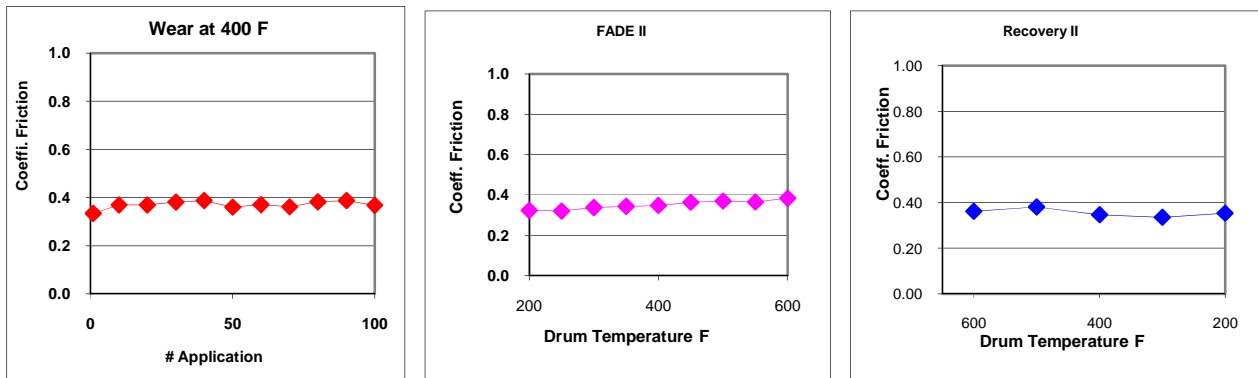
Rubbing Speed\*\* : 7500 fpm

Pressure\*\* : 2000 psi

Drum Temperature for

Constant Operation\*\* : 650°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.