



**Friction & Phenolic Specialists**

# Product Data Sheet: SM011

## GENERAL DESCRIPTION

SM011 is a rigid molded *Non-Asbestos, Metallic* friction material suitable for use in *Medium Friction* brake/clutch applications in a wide variety of equipments such as agricultural equipment, and overhead cranes. SM011 can be molded into many intricate internal, external, and customer specified shapes.

## FEATURES

- Exceptional dimensional stability
- Excellent Fade characteristics
- Excellent Compressibility
- Excellent Recovery

## PHYSICAL & MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 2.07-2.15

Rockwell Hardness (ASTM D785): HRR 75-85

## FRICITIONAL PROPERTIES

Coefficient of Friction (SAE J661):

Normal\* : 0.46

Hot\* : 0.42

Wear Rate (SAE J661)

(inch<sup>3</sup>/hp-hr) : 0.008<sub>max</sub>

Friction Code : GF

Maximum Operating Limits:

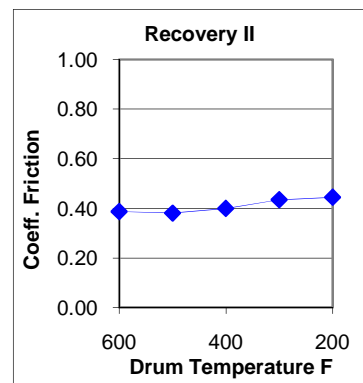
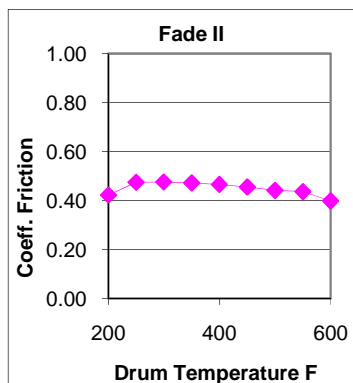
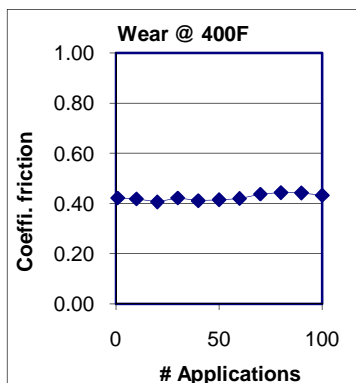
Rubbing Speed\*\* : 7500 fpm

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.