



# Product Data Sheet: RF 87-1

## GENERAL DESCRIPTION

RF 87-1 is a rigid molded *Non-Asbestos, Metallic* friction material suitable for use in **Low Friction** brake/clutch applications. RF 87-1 is smooth, extremely easy on the mating surfaces and keeps the interface temperatures low. RF 87-1 can be molded into many intricate internal, external, and customer specified shapes.

## FEATURES

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

## MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 1.95  
 Gogan Hardness (SAE J379A) : 18  
 Tensile Strength(ASTM D638) : 3306 psi

## FRictionAL PROPERTIES

Coefficient of Friction (SAE J661):  
 Normal\* : 0.21  
 Hot\* : 0.25

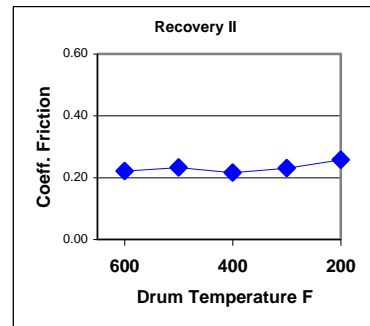
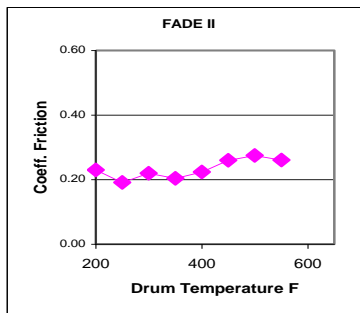
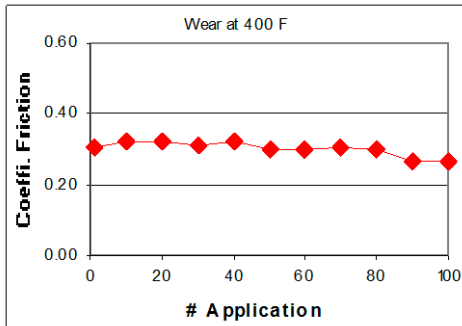
Wear Rate (SAE J661)  
 (inch<sup>3</sup>/hp-hr) : 0.003

Friction Code : DD

Maximum Operating Limits:  
 Rubbing Speed\*\* : 7500 fpm  
 Pressure\*\* : 2000 psi

Drum Temperature for  
 Constant Operation\*\* : 650°F

## SAE J661A TEST CURVES



The information presented in this datasheet provides general performance characteristics of the friction material compound under standard test conditions. Values shown are typical or represent average values from test samples. Friction material performance is application specific due to the geometry and conditions of the application, please use this as reference information only. No warranty can be made as to the suitability of this friction material for a specific application. For support with an application, please contact us to discuss your requirements.

\* Friction values shown are for guideline purposes only. Friction values will change with temperature, pressure and speed. Practical design considerations should include a factor of safety based on the specific application.

\*\* Maximum operating limits stated are interrelated. Changing any one value will change the maximum limit of the others.