



Scan-Pac Mfg.

Product Data Sheet

Brake Lining Material: **RF38**

PRODUCT DESCRIPTION: RF38 is a non-asbestos medium friction, rigid molded product. RF38 combines synthetic fibers, non-hazardous friction modifiers, zinc and brass particles, and high temperature resins. The result is a homogenous, dense, rigid, high strength product with properties suitable for use in virtually any application, including the most severe.

APPLICATION: RF38 has exceptional dimensional stability, allowing it to be molded into many intricate internal, external, and customer specified shapes. RF38 and the other dry mix molded formulas are preferred over flexible products whenever flexibility is not required, and should be used for greatly increased life and superior fade resistance in heavy duty applications. RF38 is designed for industrial use and far surpasses inexpensive truck block formulas. It has been the standard in the industry since 1978, and continues to be the target all competition shoots at but cannot equal.

PHYSICAL PROPERTIES

Tolerance and Size Data

Blocks – Thickness 1/8” to 2 ½” - To 3/8”	+ .000/- .020”
- Over 3/8”	+ .000/- .030”
- Width - To 6”	+/- 1/32”
- 6” to 8”	+ 1/32”/- 1/16”
- Over 8”	+ 1/32”/- 1/8”
Flat Sheet Size and Thickness - 20” X 20”	up to 1 ½”
- 30” X 30”	up to 2 ½”
- 12 ½” X 15”	up to 2 ½”
To 3/8” Thick	+ .000/- .020”
Over 3/8” Thk.	+ .000/- .030”
Facing – Thickness - To 3/8”	+ .000/- .020”
- Over 3/8”	+ .000/- .030”
OD - To 12”	+/- 1/32”
- Over 12”	+/- 1/16”
ID - To 12”	+ 1/16”/- .000
- Over 12”	+ 1/8”/- .000

MECHANICAL PROPERTIES

Specific Gravity (SAE J380)	2.0-2.25
Gogan Hardness (SAE J379A)	20-40
Tensile Strength, psi (ASTM D638)	2800psi min.
Modulus of Rupture (ASTM-D790)	3200psi min.

FRICITION PROPERTIES RF38

Coefficient of Friction (SAE J661)	
Normal	.43
Hot	.42
See Note 1	
Wear Rate, by weight (SAE J661)	.014
Friction Code	FF
Recommended Operating Limits	
Max. Rubbing Speed	7500 fpm
See Note 2	
Max. Drum Temp.	600°F
°F for Constant Operation	
See Note 2	
Max. Pressure	150psi
See Note 2	

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.

SAE J661a Test Curves

