

# *Ferotec Friction, Inc.*

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## PRODUCT DATA SHEET

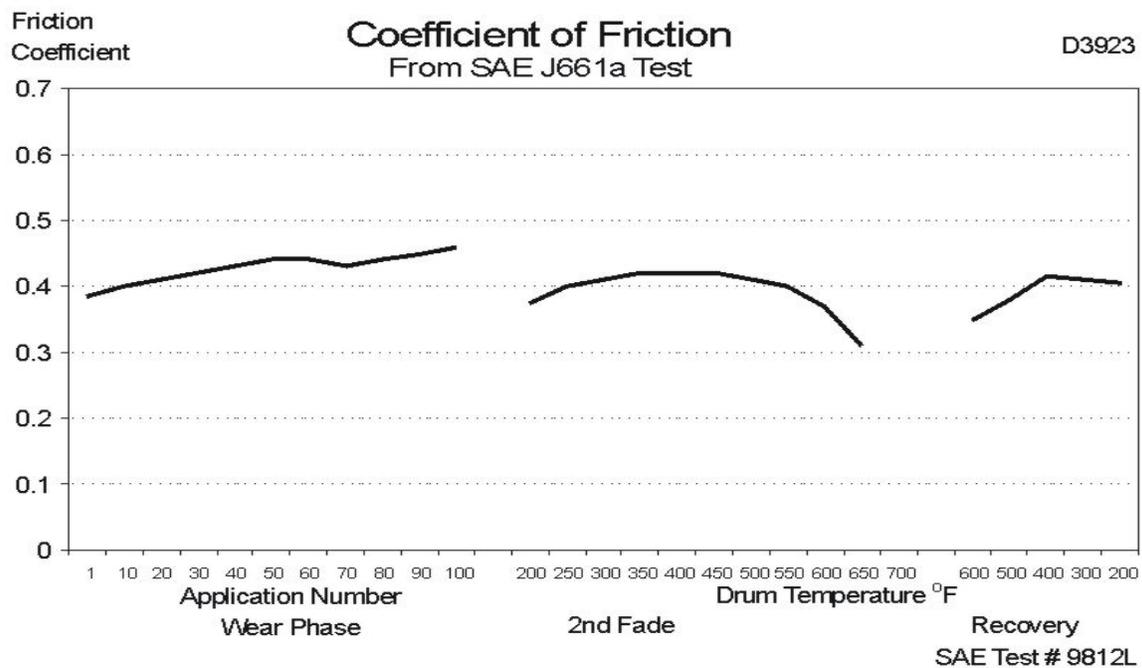
### FRICITION MATERIAL COMPOSITE: **D3923**

**PRODUCT DESCRIPTION:** **D3923** is a flexible semi-cured, molded composite exhibiting excellent stability and wear resistant properties at friction levels lower than those of **D3915**.

**APPLICATION:** As supplied, **D3923** is sufficiently flexible to make fitting to arced parts a relatively simple process. Heat generated in service will increase its strength and rigidity. Alternatively, **D3923** may be heat treated at temperatures of 400° - 450°F. for at least 60 minutes, either before or after mounting. When supplied in a fully cured version it is known as **D3924** It may be bonded using any of the established adhesives recommended for friction materials. For best results, a thermosetting adhesive is strongly suggested. Good quality, fine grained, pearlitic cast iron or cold rolled steel mating surfaces are recommended with a Brinell hardness of 200. **D3923** is not suitable for use in oil.

PHYSICAL PROPERTIES		
Available Sizes (1)		
Width, inches		1 to 13
Thickness, inches		0.125 to 0.375
Length, feet		16 or 24 (thickness dependant)
Specific Gravity	SAE J380	1.98
Apparent Density, pounds/in <sup>3</sup>		0.072
Hardness, Shore D	SAE J379	60 ± 5
(1) Special sizes available on request		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	595
Flexural Strength, psi	ASTM D790	Flexible
Compression Strength, psi	ASTM D695	4500
Shear Strength, psi	ASTM D732	450
THERMAL PROPERTIES		
Conductivity, BTU-in/hr/ft <sup>2</sup> /°F	ASTM D2214	TBD
Specific Heat, Cal/gm/°C	ASTM C351	TBD

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	
Normal		.41
Hot		.39
@ 400°F		.43
Static @ 200°F		.50
@ 400°F		.35
Wear Rate, in <sup>3</sup> /hp-hr		0.0037
Friction Code	SAE J866	FF
Recommended Operating Limits (3)		
Maximum Unit Pressure, psi		250
Maximum Rubbing Speed, ft/min		3500
Temperature, °F		
Minimum		-10
Maximum (Intermittent)		550
Maximum (Continuous)		450
(2) Data derived from SAE J661a dynamometer test results.		
(3) Recommended operating limits are commensurate with a reasonable amount of wear and uniform performance.		



**NA** = not available  
**N/A** = not applicable  
**NR** = not recommended  
**TBD** = to be determined

The information and data supplied in this data sheet are believed to be accurate and reliable, and were obtained from standard laboratory tests. Since actual conditions of use are not within the control of **Ferotec Friction, Inc.**, it is suggested that **D3923** be thoroughly tested and its suitability for use be determined before final acceptance.