Ferotec Friction, Inc.

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PRODUCT DATA SHEET

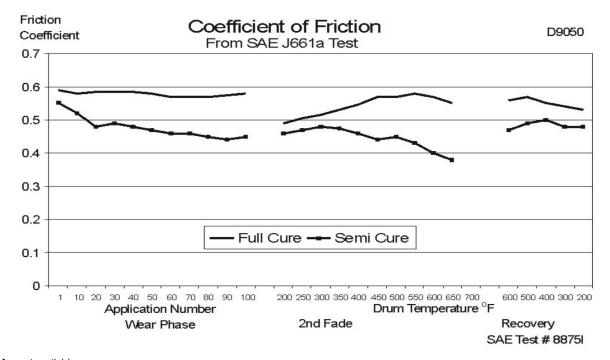
FRICTION MATERIAL COMPOSITE: **D9050**

PRODUCT DESCRIPTION: D9050 is a composite woven with carded yarns containing brass wire. The 3-axis construction, in combination with a very high temperature resistant resin, produces a dense, tough lining which exhibits excellent resistance to fade and compression under load. **D9050** meets the applicable requirements of **Fed Spec HH-L-361g**.

APPLICATION: D9050 is suggested for light to heavy duty service where high static and dynamic friction levels are required in winches, cranes, hoists, etc. **D9050** may be mated to quality steel and cast iron, but is not recommended for use with stainless steel, copper, aluminum, or other soft metals.

PHYSICAL PROPERTIES				
Available Sizes (1)				
Width, inches		1 to 13		
Thickness, inches		0.125 to 0.250		
Length, feet		25		
Specific Gravity (2)	SAE J380	≈ 1.50		
Apparent Density, pounds/in ³		≈ 0.0542		
Hardness, Shore D		55 ± 7 (semi-cure)		
(1) Other sizes will be considered on individual ba	asis. (2) Specific Gravity and De	ensity vary with thickness		
MECHANICAL PROPERTIES				
		Semi -Cure	Full -Cure	
Tensile Strength, psi	ASTM D638	4500	4500	
Modulus x 10 ⁶ , psi		0.47	0.62	
Elongation, %		1.80	1.40	
Flexural Strength, psi	ASTM D790	Flexible	8400	
Compression Strength, psi (3)	ASTM D695	≈ 500	1200 +	
Shear Strength, psi	ASTM D732	NA	7200	
(3) Thickness dependant				
THERMAL PROPERTIES				
Conductivity, BTU-in/hr/ft²/°F	ASTM D2214	≈ 1.50		
Specific Heat, Cal/gm/°C	ASTM C351	≈ 0.25		

FRICTION PROPERTIES				
Coefficient of Friction	SAE J661	Semi-Cure	Full Cure	
Normal		.46	.51	
Hot		.47	.56	
@ 400°F		.47	.56	
Static @ 200°F		.53	.52	
Static @ 400°F		.50	.52	
Wear Rate, in³/hp-hr		0.0047	0.0034	
Friction Code		GG	GH	
Recommended Operating Limits (4)				
Maximum Unit Pressure, psi		200	300	
Maximum Rubbing Speed, ft/min		3000	4000	
PV Limit (psi x ft/min)		200000	300000	
Temperature, °F				
Minimum		-10	-10	
Maximum (Intermittent)		600	650	
Maximum (Continuous)		500	600	
(4) 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 **D9050** be thoroughly tested and its suitability for use be determined before final acceptance.