

Ferotec Friction, Inc.

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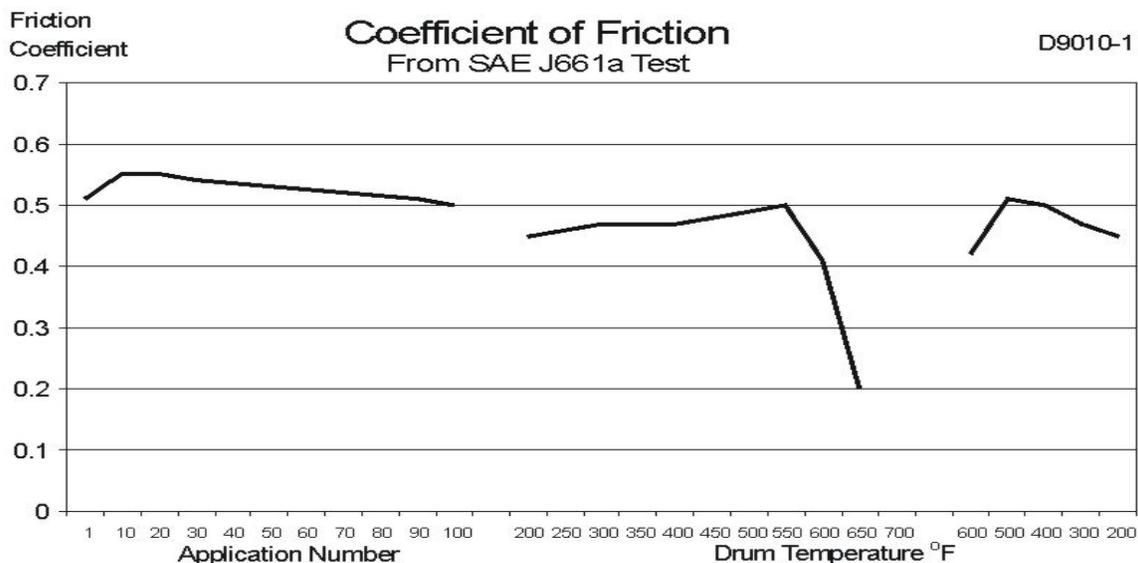
PRODUCT DATA SHEET FRICTION MATERIAL COMPOSITE: **D9010-1**

PRODUCT DESCRIPTION: D9010-1 is a composite woven lining from finely carded yarns containing metallic wire. The 3-axis construction and resins used provide a dense, tough material which exhibits good resistance to heat and compression under load. D9010-1 meets the applicable requirements for CID A-A-52522.

APPLICATION: D9010-1 is aptly suited for light to heavy duty service with quality steel & cast iron mating surfaces in winches, cranes, hoists, etc. D9010-1 is not recommended for use with copper, aluminum, or other soft materials. It is oil and grease resistant and is suitable for light to medium duty operation in oil. See **Product Data Sheet "D9010-1 for Operation in Oil."**

PHYSICAL PROPERTIES		
Available Sizes (1)		
Width, inches		1 to 13
Thickness, inches		0.125 to 1.250
Length, feet		25
Specific Gravity (2)	SAE J380	≈ 1.40 - 1.60
Apparent Density, pounds/in ³		≈ 0.0578
(1) Special sizes available on request (2) Specific Gravity varies with thickness		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	4500 (0.187 thick)
Modulus x 10 ⁶ , psi		0.19
Elongation, %		≈ 2.5
Flexural Strength, psi	ASTM D790	Flexible
Compression Strength, psi for 5% deflection	ASTM D695	600 - 900 (thickness dependant)
Shear Strength, psi	ASTM D732	6300 (0.187 thick)
THERMAL PROPERTIES		
Conductivity, BTU-in/hr/ft ² /°F	ASTM D2214	≈ 1.50
Specific Heat, Cal/gm/°C	ASTM C351	0.25

FRICTION PROPERTIES		
Coefficient of Friction (3)	SAE J661	
Normal		.46
Hot		.45
@ 400°F		.52
Static @ 200°F		.50
@ 400°F		.44
Wear Rate, in ³ /hp-hr		0.0086
Friction Code	SAE J866	GF
Recommended Operating Limits (4)		
Maximum Unit Pressure, psi		200
Maximum Rubbing Speed, ft/min		3000
PV Limit (psi x ft/min)		150000
Power Rating (mean) hp/in ²	Infrequent Duty	1.5 Max
	Normal Intermittent Duty	0.5 Max
Temperature, °F		
Minimum		-10
Maximum (Intermittent)		550
Maximum (Continuous)		450
(3) Data derived from SAE J661a dynamometer test results.		
(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

Recovery
 SAE Test # 7798L

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 **D9010-1** be thoroughly tested and its suitability for use be determined before final acceptance.