

# *Ferotec Friction, Inc.*

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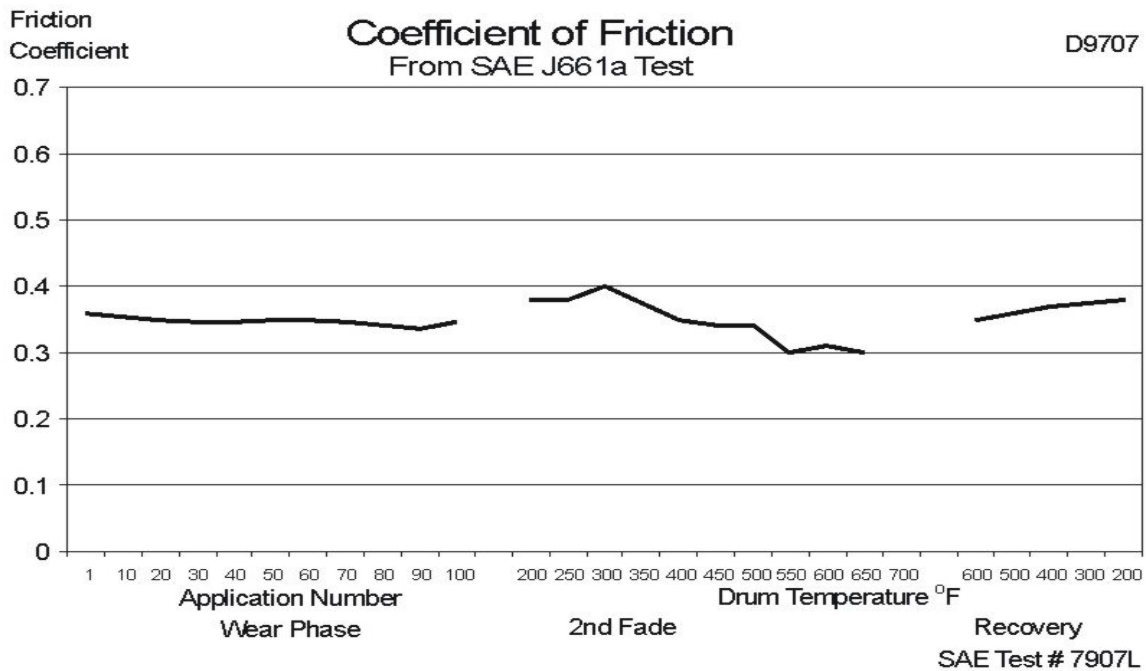
## PRODUCT DATA SHEET FRICTION MATERIAL COMPOSITE: **D9707**

**PRODUCT DESCRIPTION:** D9707 is a medium friction, rigid, semi-metallic material supplied as a compression molded slabs and shapes.

**APPLICATION:** The desirable characteristics of D9707 make it especially suitable for heavy duty off-road and mass transit disc installations. Its low wear rate provides long life cycles and reduced replacement schedules.

PHYSICAL PROPERTIES		
Available Sizes (1)		
Width, inches		28 Max.
Thickness, inches		0.250 to 1.500
Length, inches		36 Max.
Specific Gravity	SAE J380	2.87
Apparent Density, pounds/in <sup>3</sup>		0.104
Hardness, Gogan	SAE J379	15 ± 5
(1) Special sizes available on request		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	5100
Modulus x 10 <sup>6</sup> , psi		2.59
Elongation, %		0.19
Flexural Strength, psi	ASTM D790	10200
Modulus x 10 <sup>6</sup> , psi		1.75
Compression Strength, psi	ASTM D695	23000
Shear Strength, psi	ASTM D732	6600
THERMAL PROPERTIES		
Conductivity, BTU-in/hr/ft <sup>2</sup> /°F	ASTM D2214	Good
Specific Heat, Cal/gm/°C	ASTM C351	TBD

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	
Normal		.35
Hot		.33
@ 400°F		.33
Static @ 200°F		.53
@ 400°F		.52
Wear Rate, in <sup>3</sup> /hp-hr		0.0022
Friction Code	SAE J866	EE
Recommended Operating Limits (3)		
Maximum Unit Pressure, psi		300
Maximum Rubbing Speed, ft/min		5000
Temperature, °F		
Minimum		-10
Maximum (Intermittent)		800
Maximum (Continuous)		700
(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**, it is suggested that **D9707** be thoroughly tested and its suitability for use be determined before final acceptance.