

Ferotec Friction, Inc.

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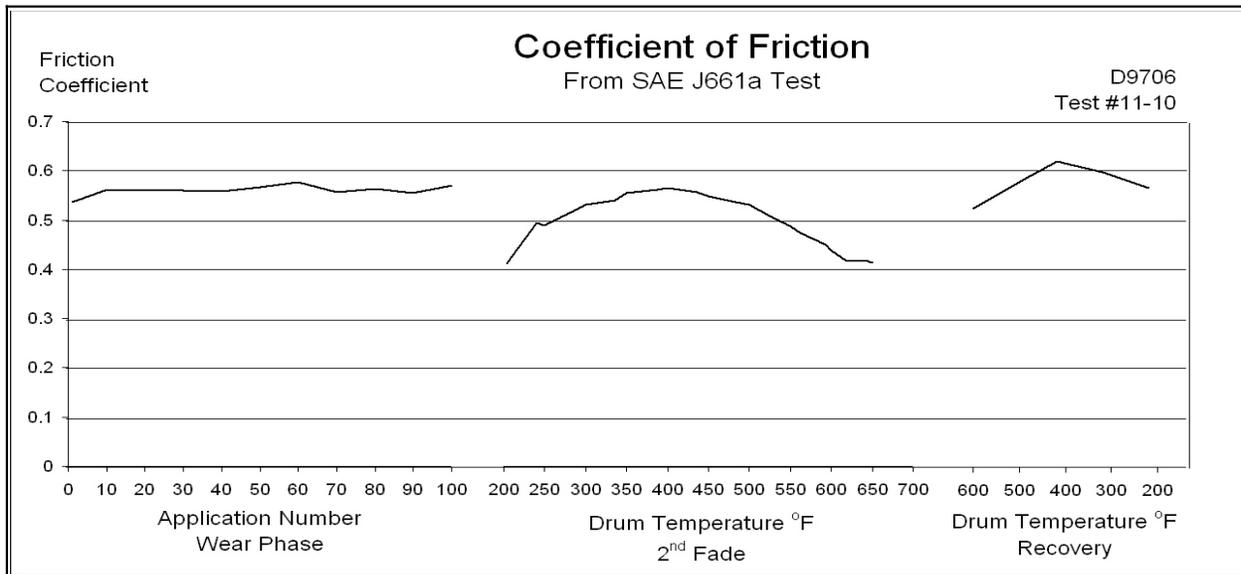
PRODUCT DATA SHEET FRICTION MATERIAL COMPOSITE: **D9706**

PRODUCT DESCRIPTION: D9706 is a rigid, high coefficient, molded friction material. The high coefficient levels are achieved with a unique formula whose ingredients are ≤ 3 on the Moh hardness scale making D9706 well suited for use with aluminum and copper alloys. D9706 exhibits excellent stability and wear resistance.

APPLICATION: D9706 is recommended for use where high friction is required for use against softer mating surfaces. D9706 is normally supplied in arced segments or slabs.

PHYSICAL PROPERTIES		
Available Sizes (1)		
Width, inches		28 Max.
Thickness, inches		.187 to 1.000
Length, inches		36 Max
Specific Gravity	SAE J380	2.00
Apparent Density, pounds/in ³		0.072
Hardness, Gogan	SAE J379	40 ± 10
(1) Special sizes available on request		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	2150
Modulus x 10 ⁶ , psi		1.68
Elongation, %		0.11
Flexural Strength, psi	ASTM D790	4100
Modulus x 10 ⁶ , psi		0.64
Compression Strength, psi	ASTM D695	10600
Shear Strength, psi	ASTM D732	3370
THERMAL PROPERTIES		
Conductivity, BTU-in/hr/ft ² /°F	ASTM D2214	2.49
Specific Heat, Cal/gm/°C	ASTM C351	TBD

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	
Normal		.59
Hot		.58
@ 400°F		.56
Static @ 200°F		.50
@ 400°F		.54
Wear Rate, in ³ /hp-hr		0.0038
Friction Code	SAE J866	HH
Recommended Operating Limits (3)		
Maximum Unit Pressure, psi		250
Maximum Rubbing Speed, ft/min		3500
Temperature, °F		
Minimum		-10
Maximum (Intermittent)		600
Maximum (Continuous)		500
(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 **D9706** be thoroughly tested and its suitability for use be determined before final acceptance.