

# *Ferotec Friction, Inc.*

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## PRODUCT DATA SHEET

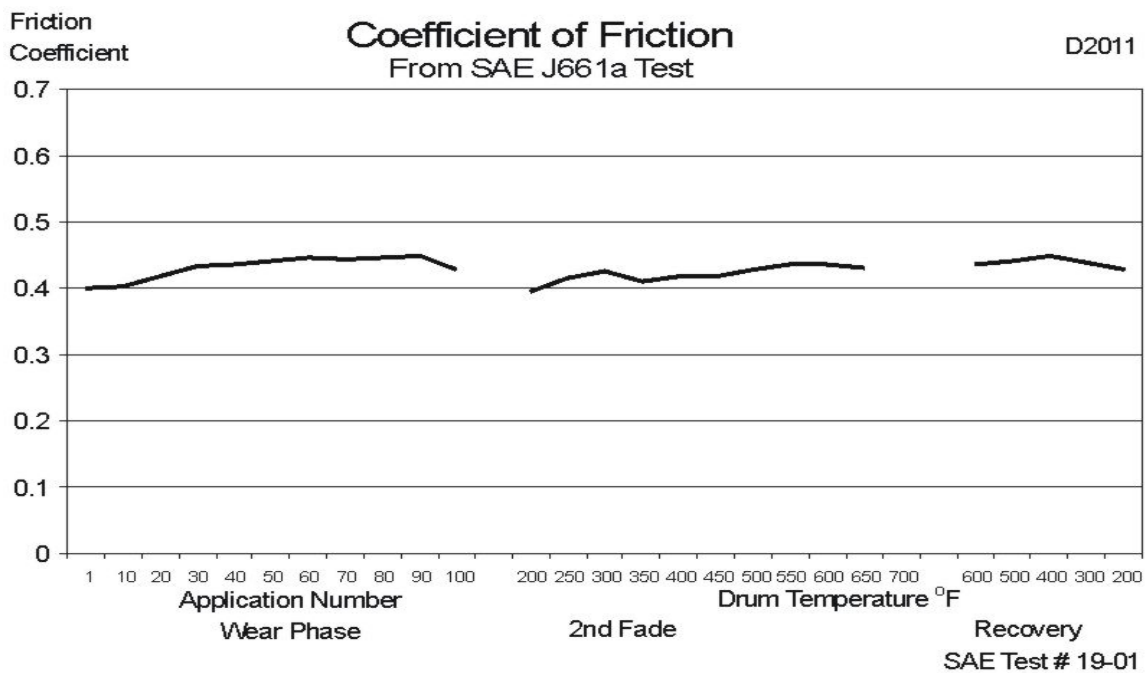
### FRICITION MATERIAL COMPOSITE: **D2011**

**PRODUCT DESCRIPTION:** D2011 is a medium coefficient, rigid molded semi-metallic material with excellent fade resistance while exhibiting superior wear characteristics.

**APPLICATION:** D2011 is suitable for heavy to severe duty applications. It is ideally applied when used in both industrial and off-highway disc brake applications.

PHYSICAL PROPERTIES		
Available Sizes (1)		
Width, inches		D2011 is primarily manufactured in the form of net or near-net shapes such as pads or disc brakes. Depending upon size, it can be offered in rectangular block or sheet form.
Thickness, inches		
Length, inches		
Specific Gravity	SAE J380	3.00
Apparent Density, pounds/in <sup>3</sup>		.108
Hardness, Gogan	SAE J379	21
(1) Special sizes available on request		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	N/A
Flexural Strength, psi	ASTM D790	TBD
Compression Strength, psi	ASTM D695	12,600
Shear Strength, psi		TBD
THERMAL PROPERTIES		
Conductivity, W/m °C	ASTM D2214	1.40

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	
Normal		.41
Hot		.43
@ 400°F		.43
Static @ 200°F		TBD
@ 400°F		TBD
Wear Rate, in <sup>3</sup> /hp-hr		0.0030"
Friction Code	SAE J866	FF
Recommended Operating Limits (3)		
Maximum Unit Pressure, psi		750
Maximum Rubbing Speed, ft/min		5000
Temperature, °F		
Minimum		-40
Maximum (Intermittent)		750
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 **D2011** be thoroughly tested and its suitability for use be determined before final acceptance.