

# *Ferotec Friction, Inc.*

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## PRODUCT DATA SHEET

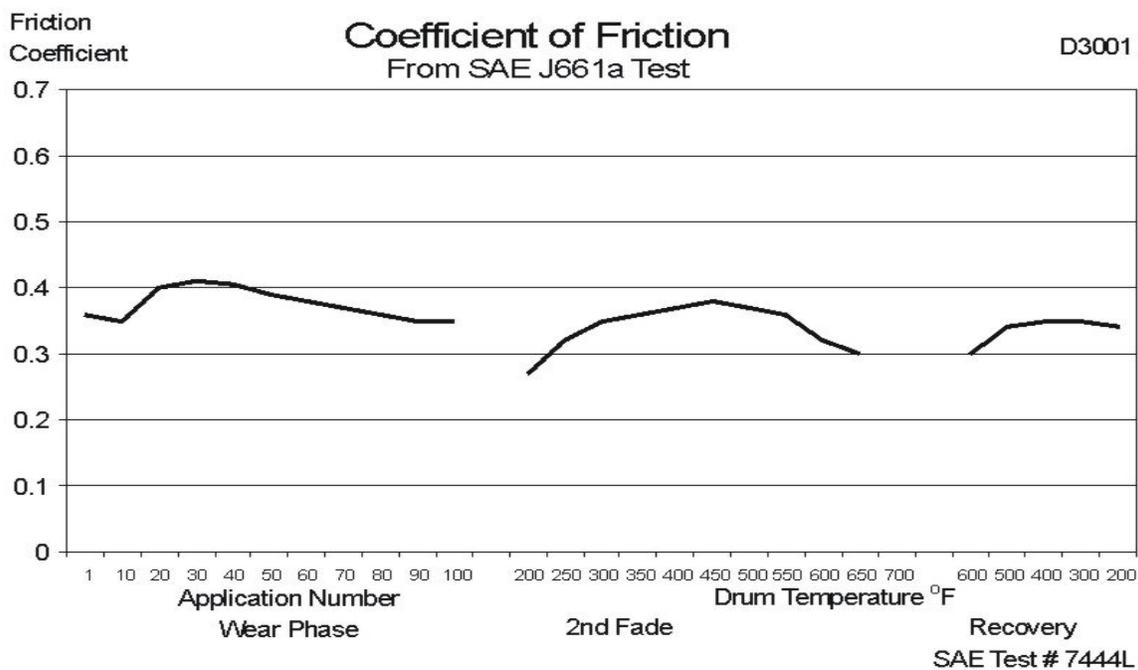
### FRICITION MATERIAL COMPOSITE: **D3001**

**PRODUCT DESCRIPTION:** D3001 is a ferrous-based semi-metallic composite supplied molded to near-net shape.

**APPLICATION:** D3001 is suggested for use in severe temperature duty applications where thermal capacity and temperature dissipation are required. It is also suggested for use in situations where magnetic properties are dictated.

PHYSICAL PROPERTIES		
Available Sizes		Customer molded to near-net shape
Specific Gravity	SAE J380	3.30
Apparent Density, pounds/in <sup>3</sup>		0.12
Hardness, Gogan	SAE J379	45 ± 5
(1) Special sizes available on request		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	NA
Flexural Strength, psi	ASTM D790	5000
Modulus x 10 <sup>6</sup> , psi		1.3
Compression Strength, psi for 5% deflection	ASTM D695	NA
Shear Strength, psi	ASTM D732	NA
THERMAL PROPERTIES		
Conductivity, BTU-in/hr/ft <sup>2</sup> /°F	ASTM D2214	Very High
Specific Heat, Cal/gm/°C	ASTM C351	NA

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	
Normal		.35
Hot		.33
@ 400°F		.37
Static @ 200°F		.45
@ 400°F		.38
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)		650
(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 **D3001** be thoroughly tested and its suitability for use be determined before final acceptance.