

Ferotec Friction, Inc.

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PRODUCT DATA SHEET

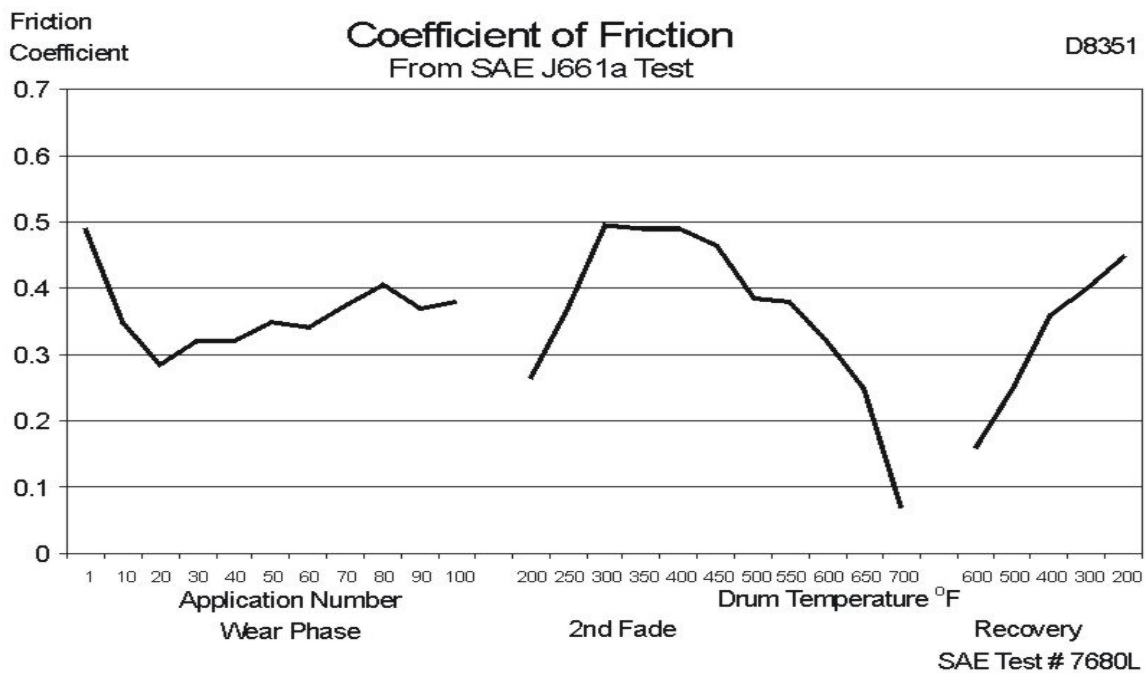
FRICITION MATERIAL COMPOSITE: **D8351**

PRODUCT DESCRIPTION: D8351 is a medium friction molded material available in slabs or flat shapes. D8351 meets the applicable requirements of **Fed Spec HH-L-361G**.

APPLICATION: D8351 exhibits sufficient strength, and is recommended for, light to medium duty gear tooth facings or notched drivers. D8351 may be used dry or in oil applications.

PHYSICAL PROPERTIES		
Available Sizes (1)		
Width, inches		28 Max.
Thickness, inches		0.187 to 1.500
Length, inches		36 Max.
Specific Gravity	SAE J380	1.80
Apparent Density, pounds/in ³		.065
Hardness, Gogan	SAE J379	17 ± 5
(1) Special sizes available on request		
MECHANICAL PROPERTIES		
Tensile Strength, psi	ASTM D638	5200
Modulus x 10 ⁶ , psi		1.75
Elongation, %		0.54
Flexural Strength, psi	ASTM D790	9800
Modulus x 10 ⁶ , psi		1.44
Compression Strength, psi	ASTM D695	23500
Shear Strength, psi	ASTM D732	7900
THERMAL PROPERTIES		
Conductivity, BTU-in/hr/ft ² /°F	ASTM D2214	2.66
Specific Heat, Cal/gm/°C	ASTM C351	TBD

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	
Normal		.41
Hot		.33
@ 400°F		.37
Static @ 200°F		.60
@ 400°F		.35
Wear Rate, in ³ /hp-hr		0.0025
Friction Code	SAE J866	FE
Recommended Operating Limits (3)		
Maximum Unit Pressure, psi		250
Maximum Rubbing Speed, ft/min		5000
Temperature, °F		
Minimum		-10
Maximum (Intermittent)		550
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, Inc.**, it is suggested that **D8351** be thoroughly tested and its suitability for use be determined before final acceptance.