

# *Ferotec Friction, Inc.*

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## PRODUCT DATA SHEET FRICTION MATERIAL COMPOSITE: **D9201-3**

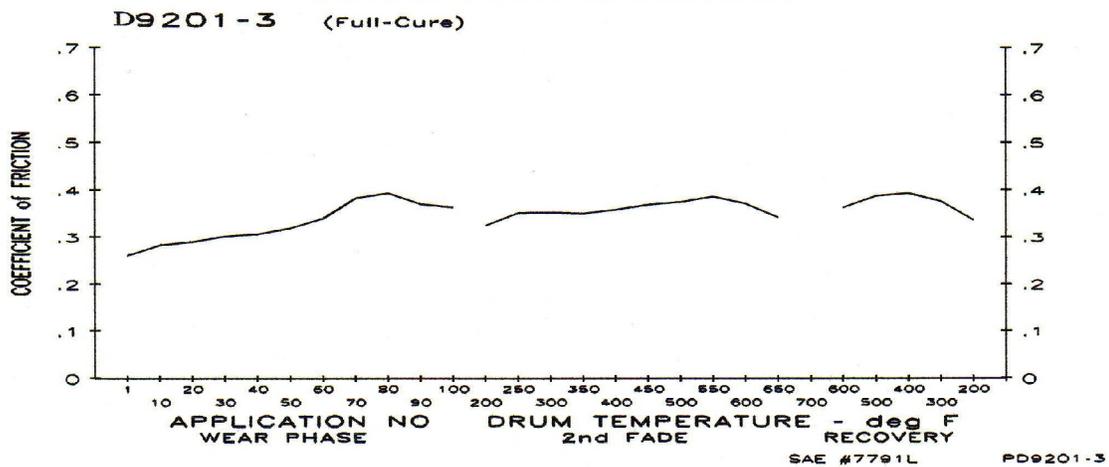
**PRODUCT DESCRIPTION:** D9201-3 is a medium friction, rubber base material supplied in rolls, or flat flexible strips. It exhibits excellent flexibility, and good fad and wear resistance.

**APPLICATION:** The flexibility of D9201-3 suggests its use in light to medium duty applications in wash machine, lawn mower, etc. brake and clutch applications. It has been proven successful against bronze, particularly in a salt water environment. The nitrile rubber binder used in D9201-3 offers resistance to grease and oil contamination.

PHYSICAL PROPERTIES			
Available Sizes (1)			
Width, inches		1 to 13	
Thickness, inches		0.062 to 0.375	
Length, inches		46 Max.	
Specific Gravity	SAE J380	1.99	
Apparent Density, pounds/in <sup>3</sup>		.072	
Hardness, Shore D		58 ± 5 (Semi-Cure)	60 ± 5 (Full Cure)
(1) Special sizes available on request			
MECHANICAL PROPERTIES			
		Semi-Cure	Full Cure
Tensile Strength, psi	ASTM D638	1200	1250
Elongation, %		11.0	9.8
Flexural Strength, psi	ASTM D790	Flexible	Flexible
Compression Strength, psi	ASTM D695	900	1100
Shear Strength, psi	ASTM D732	1900	2000
THERMAL PROPERTIES			
Conductivity, BTU-in/hr/ft <sup>2</sup> /°F	ASTM D2214	3.38	
Specific Heat, Cal/gm/°C	ASTM C351	TBD	

FRICTION PROPERTIES		
Coefficient of Friction (2)	SAE J661	Full Cure
Normal		.35
Hot		.35
@ 400°F		.33
Static @ 200°F		.44
@ 400°F		.39
Wear Rate, in <sup>3</sup> /hp-hr		0.0053
Friction Code	SAE J866	EE
Recommended Operating Limits (3)		
Maximum Unit Pressure, psi		150
Maximum Rubbing Speed, ft/min		3500
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.		

**COEFFICIENT of FRICTION**  
FROM SAE J661a TEST PROCEDURE



**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 **D9201-3** be thoroughly tested and its suitability for use be determined before final acceptance.