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BRAKE and CLUTCH COMPOSITE:

AFT200

PRODUCT DESCRIPTION and APPLICATION: **AFT200** is a phenolic treated, brass wire inserted cloth laminated under heat and pressure to a dense, strong composite.

AFT-200 provides good fade and wear resistance and may be machined using standard, industry accepted practices. Its high strength makes it suitable for gear and lug driven applications.

PHYSICAL PROPERTIES -

Specific Gravity, typical	1.6 – 1.7	SAE – J380
Apparent Density, pounds / in ²	0.058 – 0.061	
Maximum Available Size -		
Width	40.00"	
Thickness, Maximum / Minimum	.125" – 3.000"	
Length	40.00"	

MECHANICAL and THERMAL PROPERTIES -

Tensile Strength, psi	7200	ASTM – D638
Modulus x 10 ⁶	0.92	
Elongation, %	1.4	
Flexural Strength, psi	20,500	ASTM – D790
Modulus x 10 ⁶	0.72	
Compression Strength, psi	30,000+	ASTM – D695
Shear Strength, psi	13,600	ASTM – D732
Thermal Conductivity, BTU-in/hr/ft ² /°F	To be determined	

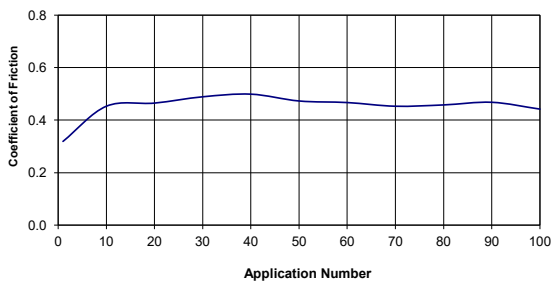
FRICION PROPERTIES -

Coefficient of Friction -		SAE J661
Normal	0.42	
Hot	0.36	
Typical @ 400°F.	0.45	
Wear Rate, in ³ /hp-hr	0.0042	
Friction Code	FF - GF	SAE J866
Suggested Operating Limits - **		
Maximum Pressure, psi	250	
Maximum Surface Speed, ft/min	5000	
Temperature, °F.		
Maximum, Intermittent	600°	
Maximum, Sustained	500°	

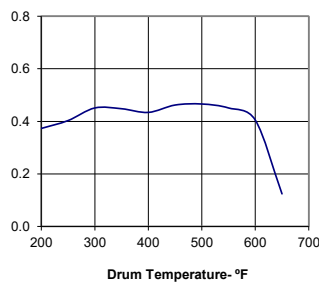
** Suggested operating limits are consistent with uniform performance and acceptable wear rate

Coefficient of Friction From SAE J661 Test Procedure

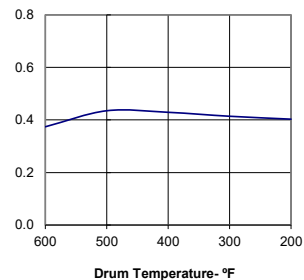
Wear Test



Second Fade



Second Recovery



The data presented herein was obtained from industry accepted standards. **Champion Friction Technologies Inc.** provides the information in good faith but make no representation as to its completeness or accuracy. The information is intended only as a guide, and independent judgement must be exercised in determining suitability of the material for a particular purpose.