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BRAKE and CLUTCH COMPOSITE: **AFT200NM**

PRODUCT DESCRIPTION and APPLICATION: AFT200NM is a phenolic treated, non-metallic version of our AFT200, brass wire inserted cloth. Constructed of Kevlar and fiberglass, AFT200NM is laminated under heat and pressure to create a dense, strong composite. AFT-200NM 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. The non-metallic properties make it ideal for hydro and aeronautical applications.

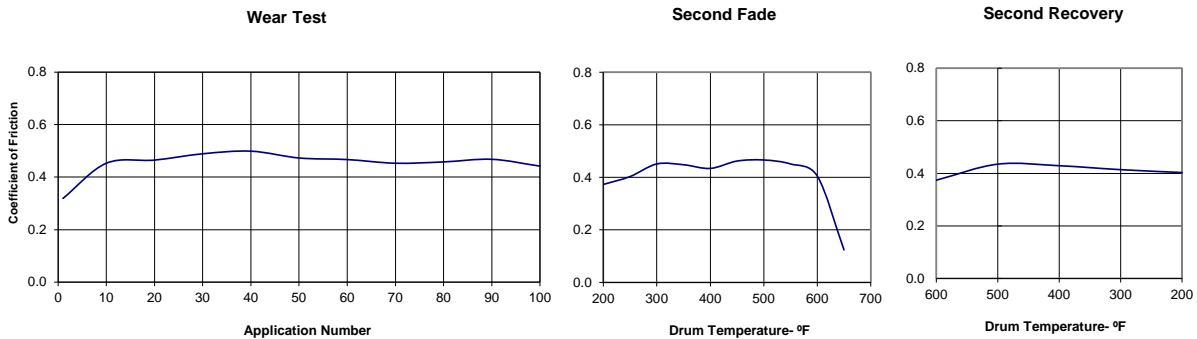
PHYSICAL PROPERTIES -		
Specific Gravity, typical	1.6 –1.7	SAE – J380
Apparent Density, pounds / in ²	0.058 – 0.061	
Maximum Available Size -		
Width	40.00"	
Thickness, Maximum / Minimum	.125" – 3.000"	
Length	40.00"	
MECHANICAL and THERMAL PROPERTIES -		
Tensile Strength, psi	7200	ASTM – D638
Modulus 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



The data presented herein was obtained from industry accepted standards. **Champion 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.