Northwest: 845 McKinley St. • Eugene, OR 97402 • (541) 687-8015
Midwest: 50 Newton St. Ste A • Norwalk, OH 44857 • (419) 668-1545
Mailing: PO Box 1459 • Eugene, OR 97440 •
Toll Free: (800) 547-6180 • **FAX**: (541) 344-0104 • www.stillchampion.com

BRAKE and CLUTCH COMPOSITE: AFT1011

PRODUCT DESCRIPTION and APPLICATION: **AFT1011** is a graphite-based brake and clutch friction composite, especially designed to run against copper, where it exhibits excellent coefficient stability and fade resistance. It is also recommended for use against quality cast iron and steel surfaces where low coefficients are required.

AFT-1011 may be machined using industry-accepted practices.

PHYSICAL PROPERTIES -		
Specific Gravity, typical	2.00	SAE – J380
Apparent Density, pounds / in^2	0.0072	
Maximum Available Size -		
Width	38”	
Thickness, Maximum / Minimum	1.5”	
Length	38”	

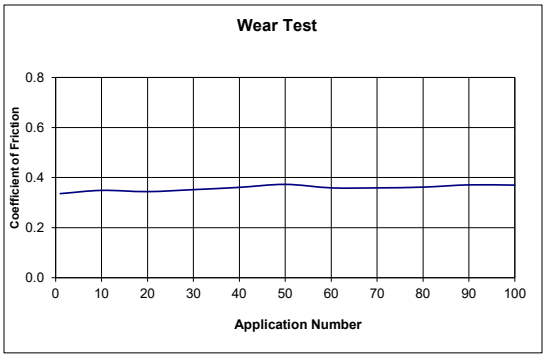
MECHANICAL and THERMAL PROPERTIES -		
Tensile Strength, psi	2350	ASTM – D638
Modulus x 10^6	1.5	
Elongation, %	0.15	ASTM – D790
Flexural Strength, psi	5200	
Modulus x 10^6	0.85	
Compression Strength, psi	13,400	ASTM – D695
Shear Strength, psi	4800	ASTM – D732
Thermal Conductivity, BTU-in/hr/ft^2/°F	TBD	ASTM-D2214

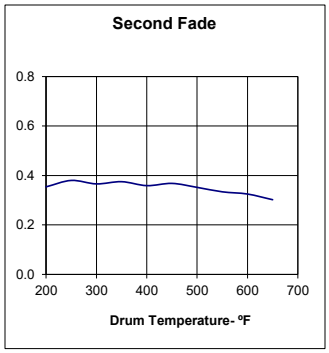
FRICTION PROPERTIES -		
Coefficient of Friction -		SAE J661
Normal	0.32	
Hot	0.30	
Typical @ 400°F.	0.34	
Wear Rate, in^3/hp-hr	0.0054	
Friction Code	**EE**	SAE J866
Suggested Operating Limits - **		
Maximum Pressure, psi	300	
Maximum Surface Speed, ft/min	5000	
Temperature, °F.		
Maximum, Intermittent	650°F.	
Maximum, Sustained	500°F.	

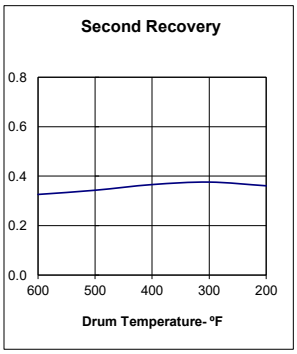
** Suggested operating limits are consistent with uniform performance and acceptable wear rate

Coefficient of Friction

From SAE J661 Test Procedure

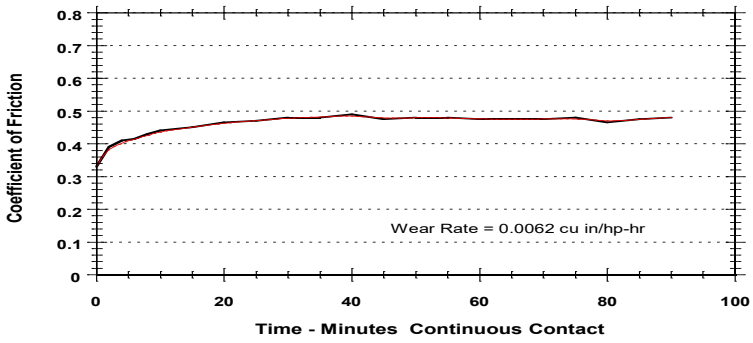






Coefficient of Friction

From FAST Test Procedure – Copper Rotor



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.