



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:

AFT100

PRODUCT DESCRIPTION and APPLICATION: AFT100 is a non-asbestos, medium coefficient, general purpose friction composite, supplied in flat or arced slabs, segments, integrally molded parts, and other special shapes including clutch facings.

PHYSICAL PROPERTIES -

Specific Gravity, typical	1.9497	SAE – J380
Apparent Density, pounds / in ²	0.078	
Maximum Available Size -		
Width	38"	
Thickness, Maximum / Minimum	1.5"	
Length	38"	

MECHANICAL and THERMAL PROPERTIES -

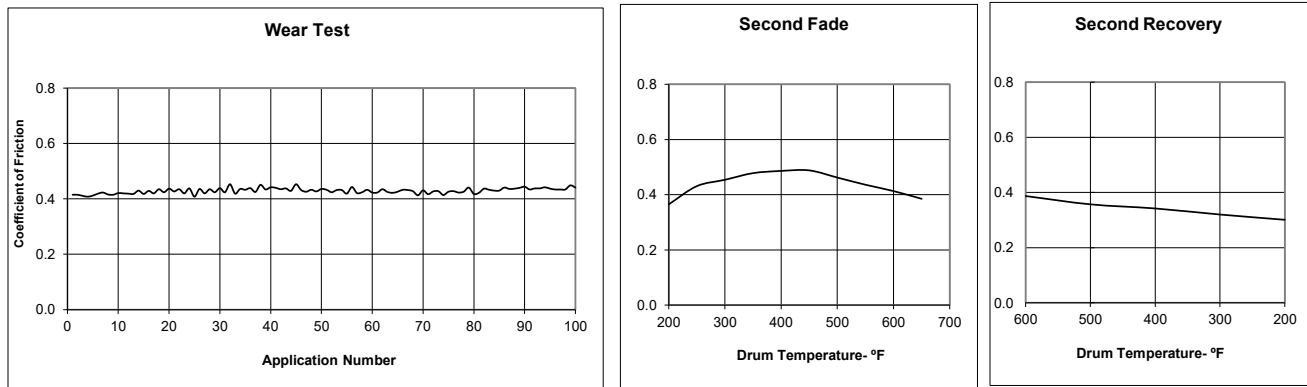
Tensile Strength, psi	2310	ASTM – D638
Modulus x 10 ⁶	2.44	
Elongation, %	0.13	
Flexural Strength, psi	5445	ASTM – D790
Modulus x 10 ⁶	0.97	
Compression Strength, psi	20,150	ASTM – D695
Direct Shear Strength, psi	4175	ASTM – D732
Thermal Conductivity, BTU-in/hr/ft ² /°F	To be determined	

FRICION PROPERTIES -

Coefficient of Friction -		SAE J661
Normal	0.43	
Hot	0.40	
Typical @ 400°F.	0.43	
Wear Rate, in ³ /hp-hr	0.0063	
Friction Code	FF	SAE J866
Suggested Operating Limits - **		
Maximum Pressure, psi	300	
Maximum Surface Speed, ft/min	5000	
Temperature, °F.		
Maximum, Intermittent	650°	
Maximum, Sustained	550°	

** 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 Friction Technologies** provided 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 purposes.