



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:

AFT1202

PRODUCT DESCRIPTION and APPLICATION: **AFT1202** is a high coefficient composite supplied in flat slabs and molded shapes. A unique combination of Iron and Brass particles in combination with other stabilizing ingredients provides consistent performance at higher, sustained temperature levels. It is recommended for heavy duty industrial and off-road use. **AFT1202** is additionally suggested for use in railcar brakes, alone or in combination with woven composites.

PHYSICAL PROPERTIES -

Specific Gravity, typical	2.03-2.08	SAE – J380
Apparent Density, pounds / in ²	0.074	
Maximum Available Size -		
Width	38"	
Thickness, Maximum / Minimum	1.5"	
Length	38"	

MECHANICAL and THERMAL PROPERTIES -

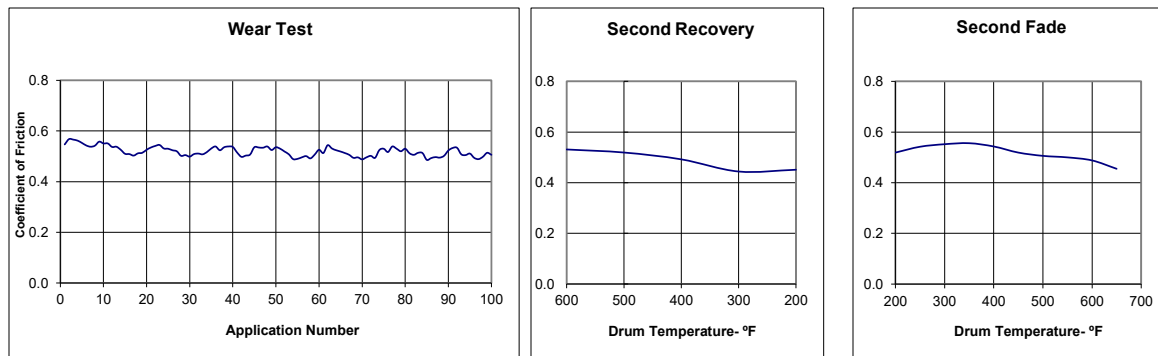
Tensile Strength, psi	4170	ASTM – D638
Modulus x 10 ⁶	1.95	
Elongation, %	0.13	
Flexural Strength, psi	7270	ASTM – D790
Modulus x 10 ⁶	1.10	
Compression Strength, psi	11,500	ASTM – D695
Shear Strength, psi	4620	ASTM – D732
Thermal Conductivity, BTU-in/hr/ft ² /°F	To be determined	

FRICION PROPERTIES -

Coefficient of Friction -		SAE J661
Normal	0.52	
Hot	0.50	
Typical @ 400°F.	0.50	
Wear Rate, in ³ /hp-hr	0.0055	
Friction Code	GG	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 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.