



STERLING FIBERS

Technical Fact Sheet

CTF 395 Acrylic Short Cut Staple Fiber

General Description

CTF 395 short cut acrylic staple has been specifically designed to increase the strength and toughness of liquid resin based brake and clutch products such as roll linings, extruded clutch facings and railroad blocks. In these applications the key issues are strength and toughness of both the in process and cured parts, with particular emphasis placed on the toughness or crack resistance. This fiber can be provided in a range of lengths from one to ten millimeters.

Physical Properties of NAO Wet Resin Friction Material Containing 6mm CTF 395 at Different Weight Percents

CTF 395 Weight %	Flexural Strength (KSI)	Properties Modulus (MSI)	Punch Shear Strength (KSI)	Fracture Toughness G_{Ic} (in-lbs/in ²)
0	2.49 +/- .24	.21 +/- .03	2.6 (Rupture)	1.68
2	2.81 +/- .24	.21 +/- .01	3.0 (Yield)	2.61
4	3.16 +/- .24	.24 +/- .01	3.2 (Yield)	4.15

Relative Strength and Toughness Improvements in Model Roll Linings Containing 10% CTF 395 at Different Fiber Lengths

	No Fiber	3mm Fiber	6 mm Fiber	9 mm Fiber
Flexural Strength	1.0	2.2	3.5	3.0
Crack Resistance	1.0	3.2	4.2	2.8

IMPORTANT NOTICE

The information and statements herein are believed to be reliable, but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

Sterling Fibers, Inc.
5005 Sterling Way
Pace, FL 32571

TEL: (800) 874-8593
FAX: (850) 994-2609

FS-CTF 395-0803.wpd