

UNDERGROUND MINING PUCKS AND SPECIAL PIECES

# THERMOFIBER 1993

**THERMOFIBER 1993** is an advanced version of ProTec's TF1900 material delivering GG Friction for demanding brake applications like underground mining equipment.

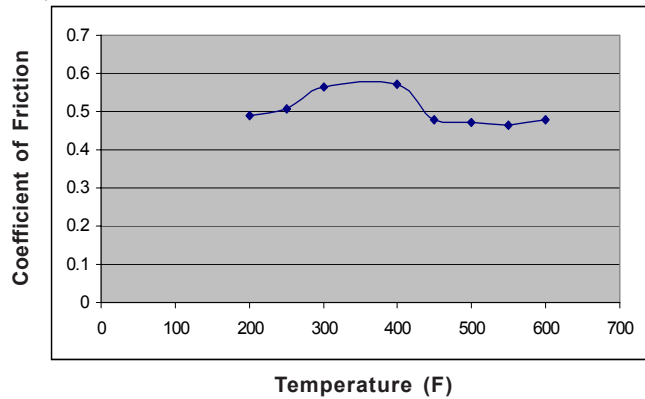
**THERMOFIBER 1993** is bonded for added thickness and strength.

**TECHNICAL DATA**

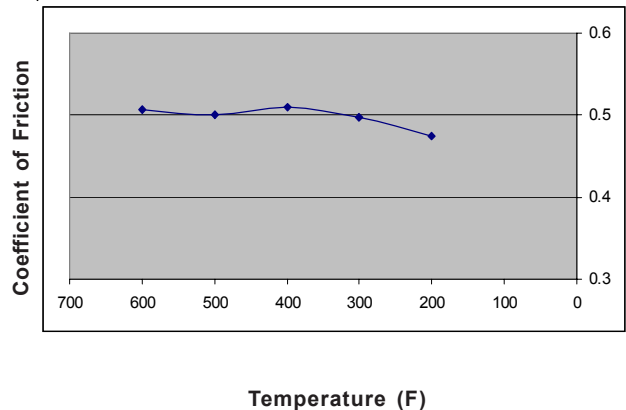
COLOR	Green
STRUCTURE	Rigid
COMPOSITION	
Metallic	No
Aramid	No
MAIN FIBER	Glass
TYPE OF SERVICE	Dry
COEFFICIENT OF FRICTION <sup>1</sup>	0.533 Normal
(μ)	0.477 Hot
WEAR RATE <sup>2</sup>	Very Good
SHEAR IMPACT STRENGTH	
MECHANICAL RESISTANCE	
Tensile Strength	2,700 (ASTM D-638-91)
Burst Strength	
Flexural Strength	13,700 (ASTM D790-97)
Compressive Strength	16000 (ASTM D695-91)
HARDNESS	88
SPECIFIC GRAVITY	1.82
MAX. RUBBING SPEED <sup>3</sup>	4100 ft/min
MAX. DRUM TEMPERATURE <sup>2</sup>	700 F
MAX. PRESSURE	150 psi
AVAILABLE FORMS	
Radius Blocks	Yes
Gear Tooth Facings	
Disc Brake Pads	Yes
Clutch Facings & Buttons	
Roll Linings	

<sup>1</sup>-According to CHASE Test SAE-J661-A, Note: Tested by Link Testing Laboratories-Michigan-USA. <sup>2</sup> Values calculated 400 F (204 C), 150 PSI, 20 ft/sec data point is typical of standard operating conditions, not the maximum limits of the compound. Wear rates vary with changes in temperature, pressure, and speed. Parameters- excellent: 0.006/0.008, good: 0.009/0.011 moderate; +0.012. <sup>3</sup> Feet/Min constant operation

Second Fade Test



Second Recovery Test



45 Kensico Drive, Mt. Kisco, NY 10549  
1.877.349.0005 F (914) 244-3615

**THERMOFIBER 1993**