



Material: FTL125

General Description

FTL125 is a phenolic treated, brass wire inserted cloth laminated under heat and pressure to a dense, strong composite. FTL125 provides good fade and wear resistance and may be machined using standard, industry accepted practices.

Application

- Gear & Lug Driven Applications

Physical Properties

Specific Gravity, typical 1.6 –1.7 SAE – J380

Apparent Density, pounds / in² 0.058 – 0.061

Maximum Available Size -

Width 40.00"

Thickness, Maximum / Minimum .125" – 3.000"

Length 40.00"

Mechanical & Thermal Properties

Tensile Strength, psi 7200 ASTM – D638

Modulus x 106 0.92

Elongation, % 1.4

Flexural Strength, psi 20,500 ASTM – D790

Modulus x 106 0.72

Compression Strength, psi 30,000+ ASTM - D695

Shear Strength, psi 13,600 ASTM – D732

Thermal Conductivity, BTU-in/hr/ft²/°F To be determined

Friction Properties

Coefficient of Friction - SAE J661

Normal 0.42

Hot 0.36

Typical @ 400°F. 0.45

Wear Rate, in³/hp-hr 0.0042

Friction Code FF - GF SAE J866

Suggested Operating Limits - **

Maximum Pressure, psi 250

Maximum Surface Speed, ft/min 5000

Temperature, °F.

Maximum, Intermittent 600°

Maximum, Sustained 500°

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



Material: FTL125

Coefficient of Friction From SAE J661 Test Procedure

