



Material: FTL146

General Description

FTL146 is a medium friction, rigid, semi-metallic material supplied as compression moulded slabs and flat shapes.

Application

FTL146 exhibits sufficient strength, and is recommended for light to medium duty gear tooth facings or notched drivers.

FTL146 may be used dry or in oil immersed applications.

Mating Surface

A good quality, fine grained, pearlitic cast iron or cold rolled steel with Brinell hardness of 200.

Recommended Operating Range

Pressure		Rubbing Speed		Maximum Temperature	
Minimum	Maximum (psi)	Minimum(ft/min)	Maximum(ft/min)	Continuous (°F)	Intermittent (°F)
	250		5000 dry, 3000 in oil	500 dry, 180 in oil	550 dry, 280 in oil

Friction Properties

Coefficient of Friction						Wear Rate
Normal	Hot	200°F	400°F	Static @ 200°F	Static @ 400°F	in ³ /hp-hr
0.41	0.33	0.26	0.37	0.60	0.35	0.0025

Physical & Mechanical Properties

Density	Hardness	Tensile Strength	Compressive Strength	Shear Strength	Flexural Strength
SAE J380	Gogan SAE J379	ASTM D638	ASTM D695	ASTM D732	ASTM D790
1.80 g/CC	17±5	5,200 psi	23,500 psi	7,900 psi	9,800 psi

