

FTL097

✓ General description:

FTL097 is a rigid, non-ferrous moulded material dark in colour. Containing rubber, resins, and mineral fibres with friction modifier agents it is enhanced with copper chippings.

FTL097 has a medium friction coefficient with low wear and excellent fading resistance.

FTL097 is fully cured for bonding and riveting and is oil resistant.

✓ Application:

- Forging machinery
- Mining industry
- Gear toothed disc
- Static brakes
- Wind turbine

✓ Mating surface:

A good quality, fine grained pearlitic cast iron with brinell hardness between 150 – 200 is recommended.

✓ Bonding:

For the best results use a thermosetting adhesive.

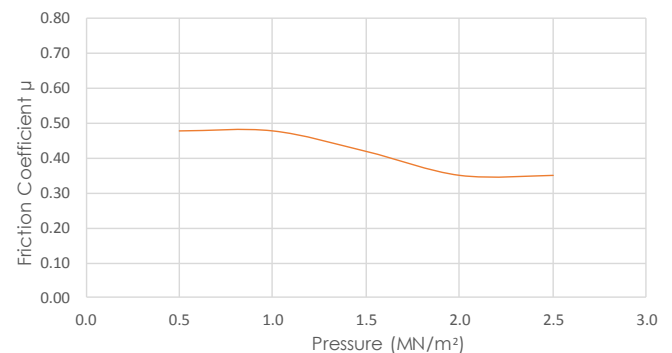
✓ Recommended Operation Range:

Max. Continuous temperature	350 °C
Max. Intermittent temperature	400 °C

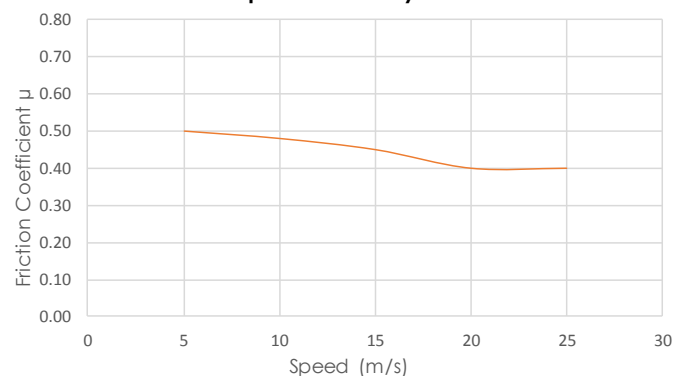
✓ Physical Properties

Dynamic Friction Coefficient	0.47
Static Friction Coefficient (15bar, room temperature)	0.37
Static Friction Coefficient (15bar, 100°C)	0.43
Density	2.12gr/cm3
Tensile Strength	18 N/mm ²
Compressive strength	127/ N/mm ²
Young Modulus	5400 N/mm ²
Poisson Coefficient	0.24
T° Fading	350 °C
Thermal conductivity	0.55W/m°K
Wear Rate	85 mm ³ /Kwh
Hardness	83Shore D

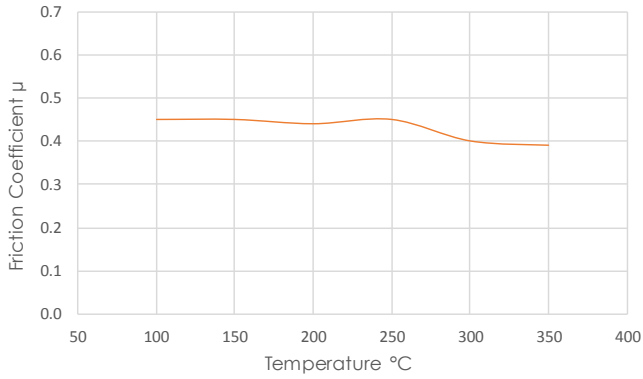
Pressure Sensitivity



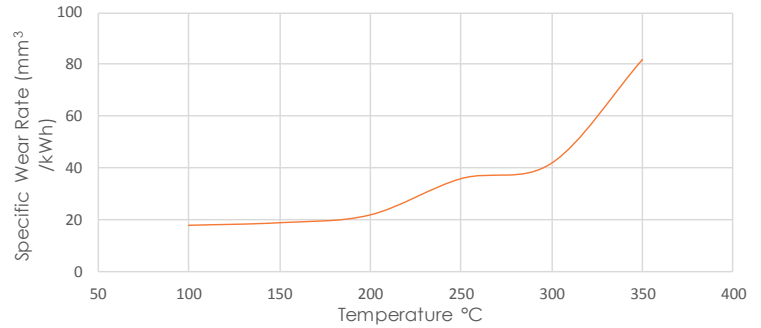
Speed Sensitivity



Temperature Sensitivity



Wear vs Temperature



The information supplied in this data sheet is believed to be accurate and reliable, was obtained by scientific and laboratory testing. However, since actual conditions of use are largely outside the control of Friction Technology Ltd, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance