

# FTL510

## ✓ General description:

**FTL510** is a copper base sintered friction material, free of asbestos, lead and zinc.

**FTL510** is a high friction material, with excellent anti fade and wear properties, and low noise operation. It can be used at all duty levels, and will offer consistent behaviour throughout.

Suitable for brakes and clutches in usual mechanical engineering, especially heavy mechanical load. The material is unsuitable for working in oil.

## ✓ Application:

- Industrial drum and band-brake linings
- Industrial disc brakes
- Industrial plate type clutches
- Cranes
- Tanks
- Armed vehicles
- High performance cars
- Excavator brake and clutch linings
- Wind turbines

## ✓ Mating Surfaces:

The recommended mating surface for **FTL510** is a good quality low alloy steel with a brinell hardness of 180. Cast steels are not recommended.

## ✓ Recommended Operating Values:

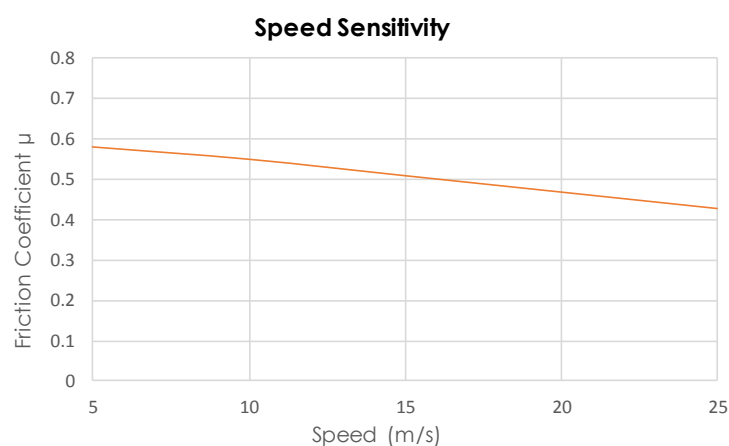
Max. Intermittent temperature	900°C
Max. Continuous temperature	700°C
Max. Pressure	5N/mm <sup>2</sup>
Max. Gliding speed	80m/s

## ✓ Technical Data

Dynamic Friction Coefficient	0.4~0.5
Static Friction Coefficient	0.6
Density	4.7 gr/cm <sup>3</sup>
Tensile Strength	15.2 N/mm <sup>2</sup>
Shear Strength	8.8 N/mm <sup>2</sup>
Hardness	75 HRR
Specific Heat	0.6J/gK
Thermal Conductivity	38.6W/mK

## ✓ Test Conditions

Application Speed	21.6m/s
Clamping Pressure	1 N/mm <sup>2</sup>
Friction Radius	0.35m
Energy	1.525MJ



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 Industrial Clutch Parts Ltd, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.