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. Can be used on brakes and clutches in usual mechanical engineering, especially heavy mechanical load. The material is unsuitable for working in oil .

✓ **Application:**

FTL510 is very suitable for industrial drum and band-brake linings, industrial disc brakes, industrial plate type clutches, crane, tanks, armed vehicles, high performance cars and excavator brake and clutch linings, miscellaneous industrial applications like wind turbines.

✓ **Mating surfaces**

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

✓ **Recommended Operating Values:**

Maximum Intermittent Temperature	900°C
Maximum Continuous Temperature	700°C
Maximum Pressure	5N/mm^2
Maximum Gliding Speed	80m/s

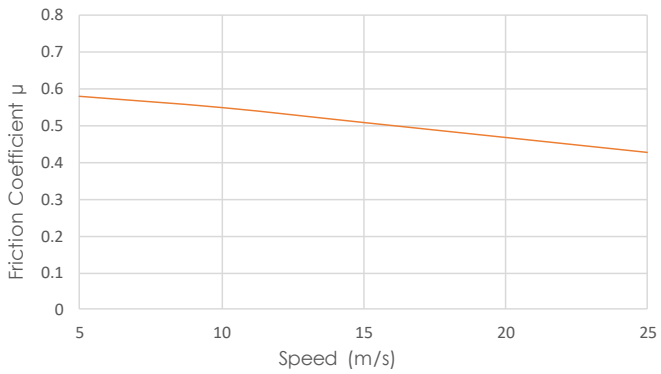
✓ **Technical Data**

Dynamic Friction Coefficient	0.4~0.5
Static Friction Coefficient	0.6
Density	4.7 gr/cm^3
Tensile Strength	15.2 N/mm^2
Shear Strength	8.8 N/mm^2
Hardness	75 HRR
Max. temperature	300°C
Thermal Conductivity	38.6W/mK

✓ **Test Conditions**

Application speed	21.6m/s
Clamping pressure	10k N/mm^2
Friction Radius	0.35m
Energy	1.525MJ

Speed Sensitivity



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