



FTL513

✓ General description:

FTL513 is a sintered friction material especially designed for high energy systems. FTL513 is copper based with no asbestos lead or zinc. Its main characteristic is having a high wear resistance even under high energy conditions.

✓ Application:

FTL513 is ideal for wind turbines, industrial disc brake, crane brakes and especial vehicles like high speed trains, racing motor bikes or cars and armed vehicles.

✓ Mating surfaces

The recommended mating surface for **FTL513** is a good quality low alloy steel.

✓ Recommended Operating Range

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

✓ Test Conditions

Application speed	70m/s
Clamping pressure	0.9 N/mm ²
Friction Radius	0.247m
Energy	9.7MJ

✓ Physical Properties

Dynamic Friction Coefficient	0.35~0.45
Static Friction Coefficient	0.5
Density	5.2 gr/cm ³
Compression Strength	140 N/mm ²
Shear Strength	7 N/mm ²
Hardness	80 HRR
Specific Heat	0.5J/gK
Thermal Conductivity	37.8W/mK

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.