

FTL511

✓ Technical Data

✓ General description:

FTL511 is a dark metallic moulded sinter metal friction material on iron, bronze, hard metal, ceramic basis.

FTL511 is extremely wear resistant but smooth to the mating. It is an oil resistant Friction Material.

✓ Application:

FTL511 is suitable for high temperatures and pressure loaded disc brakes and clutches in vehicles, industry, railways and wind generators.

✓ Mating surfaces

The recommended mating surface for **FTL511** is steel or cast iron.

✓ Availability

Moulded flat pieces, standard geometries like round pucks, hexagons, squares, triangles etc.

✓ Bonding:

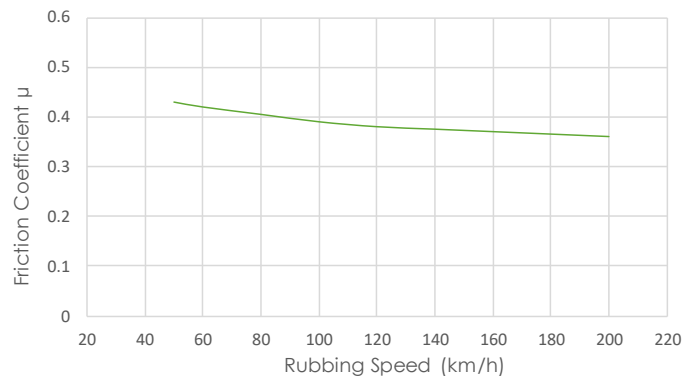
FTL511 can be bonded mechanically by riveting or bolting

✓ Recommended Operating Values:

Maximum Intermittent Temperature	325°C
Maximum Continuous Temperature	215°C
Maximum Intermittent Pressure	14N/mm ²
Maximum Continuous Pressure	8N/mm ²
Maximum Intermittent Gliding Speed	105m/s
Maximum Continuous Gliding Speed	58m/s

Dynamic Friction Coefficient	0.36-0.43
Static Friction Coefficient	0.48
Density (DIN 53479)	5.5±5% gr/cm ³
Tensile Strength (DIN 53455)	105 N/mm ²
Compressive Strength (DIN 53454)	298 N/mm ²
Shear Strength (DIN 53422)	56 N/mm ²
Hardness (DIN 53456, ball Ø5m, 30s)	70 (Rockwell)
Max. temperature	900°C
Melting point	1000°C

Speed Sensitivity



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.