FTL004

✓ General description:

FTL004 is a copper based sintered friction material for dry running applications.

FTL004 is suited for medium to heavy duty operating conditions with high coefficient of friction and high wear resistance. Good thermal stability up to 450 °C, and for a short term up to 800°C.
The special combination of solid lubricants and friction coefficient stabilisers gives high wear resistance even under high energy conditions.
Suitable for grinding, drilling and recess work.

✓ Application:

Industrial drum and band-brakes for aircraft.
Heavy earth machinery.
Miscellaneous industrial devices.
Wind energy brake pads

✓ Recommended Operation Range:

Max pressure	3,35 N/mm^2
Max. rubbing speed	40 m/s
Max. continuous temperature	430 ^{0}C
Max. intermittent temperature	750 ^{0}C
Friction surface:	Steel, cast iron, cast steel

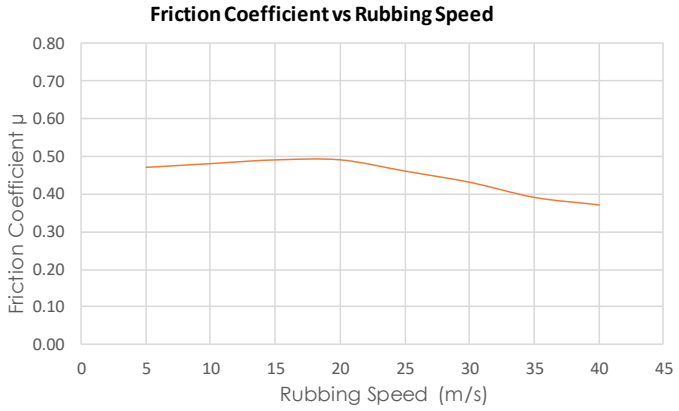
✓ Test Conditions

Application speed	10-30 m/s
Clamping pressure	2.5 N/mm^2

(All figures shown below are measured on the laboratory testing bench under the test conditions showed)

✓ Physical Properties

Dynamic Friction Coefficient	0.37-0.5
Static Friction Coefficient	0.42-0.5
Density	4.52 gr/cm^3
Tensile Strength	24 N/mm^2
Shear Strength	51 N/mm^2
Specific heat	4.9kJ/kgK
Thermal expansion coefficient	16.9x10^6/K
Thermal Conductivity	3.9W/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 Industrial Clutch Parts Ltd, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.

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