

ID Material:
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TF2100

THERMOFIBER 2100 is a fully-cured rigid molded semi-metallic friction material specifically engineered for heavy duty industrial applications. Mineral fibers and copper shavings -- linked with special resins -- conduct heat from the operating surface and reinforce its strength.

THERMOFIBER 2100 offers a friction coefficient which is exceptionally stable over all normal operating temperatures, providing excellent resistant to fade and a low wear rate low.

Material Data

Friction Properties (according to graphics)

| | | |
|--|---------------|----------------------|
| Static Friction Coefficient (15bar, from box): | 0.35±0.05 | |
| Static Friction Coefficient (15bar, 100°C): | 0.40±0.05 | |
| Dynamic Friction Coefficient: | 0.45±0.05 | μ |
| Wear Rate: | 20 (at 150°C) | mm ³ /kwh |
| T° Fading: | >350 | °C |

Physical Properties

| | | |
|------------------------------------|-----------|---------|
| Hardness (DIN53505): | 80±5 | Shore-D |
| Specific Gravity (ASTM D792): | 2.10±0.05 | gr/cm3 |
| Thermal Conductivity (ASTM E1952): | 0.54±0.01 | W/m°K |

Mechanical Properties

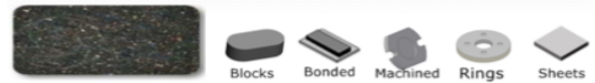
| | | |
|--------------------------------------|-----------|-------------------|
| Tensile Strength (ASTM D638): | 15±5 | N/mm ² |
| Compressive Strength (ISO 844:2014): | 126±5 | N/mm ² |
| Poisson Coefficient (ASTM D638): | 0.24±0.03 | |
| Young Modulus (ASTM D638): | 5381±100 | N/mm ² |

Recommended Working Values

| | | |
|---------------------------------|-----|----|
| T° Max. Continuous Operation: | 350 | °C |
| T° Max. Intermittent Operation: | 400 | °C |

Material Type : Rigid material

Appearance / Formats



Applications

Forging machinery - Heavy duty static applications - Heavy-duty industrial machinery - Holding Mechanical Structures - Machinery Mining industries - Mining industries - Punch-die press blocks - Ring segments -

Price Level : \$ \$ \$ \$

Reach (EC) 1907/2006 - RoHS 2011/65/EU : Compliance

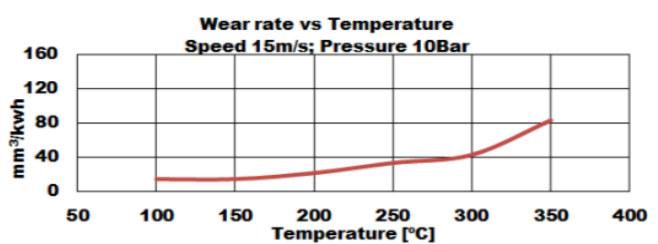
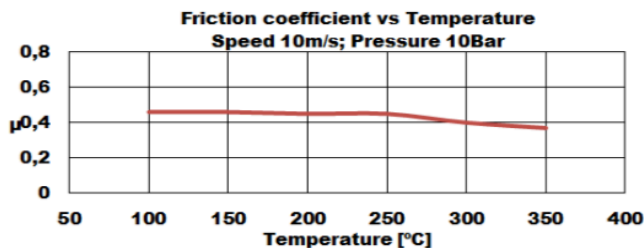
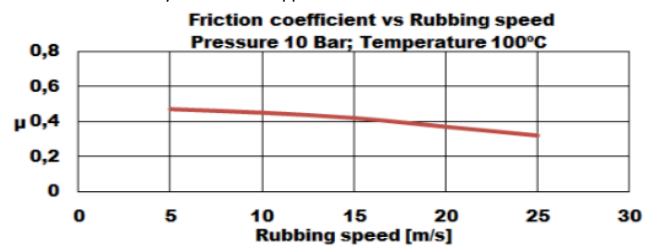
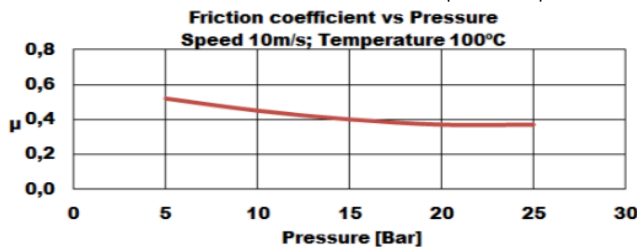
Others

Recommended Mating Surface: Perlitic cast iron, hardness HB150-200

Recommended Adhesives: Thermosetting adhesive

Oil Resistant: Yes

The above data is taken from specific test parameters therefore results can vary in different application conditions



Friction speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.