

ID Material:
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TF3020

THERMOFIBER 3020 is a low kevlar laminate consisting of resin impregnated textile material with metallic and aramid components. This friction is highly stable across all operating temperatures
THERMOFIBER 3020 is typically used for heavy-duty industrial press brake pads and for geared brake discs for industrial machinery.

Material Data

Friction Properties (according to graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient:	0.30±0.05	μ
Wear Rate:	40 (at 302 °F)	mm ³ /kwh
T° Fading:	>392	°F

Physical Properties

Hardness (DIN53505):	90±5	Shore-D
Specific Gravity (ASTM D792):	1.6±0.05	gr/cm ³
Ignition Loss (ASTM D7348):	20±2	%
Acetone	3±0.2	%

Mechanical Properties

Tensile Strength (ASTM D638):	47±5	N/mm ²
Compressive Strength (ISO 844:2014):	410±5	N/mm ²
Poisson Coefficient (ASTM D638):	0.255	
Young Modulus (ASTM D638):	13354±100	N/mm ²

Recommended Working Values

T° Max. Continuous Operation:	390	°F
T° Max. Intermittent Operation:	480	°F

Material Type : Rigid material

Appearance / Formats



Applications

Forging machinery - Heavy duty static applications - Heavy-duty industrial machinery - Holding Mechanical Structures - Machinery Mining industries -

Price Level : \$ \$ \$ \$

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

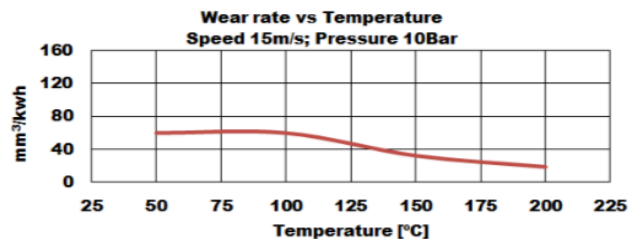
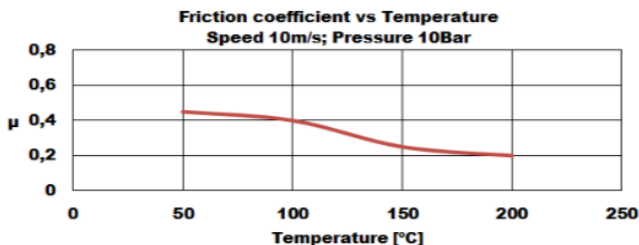
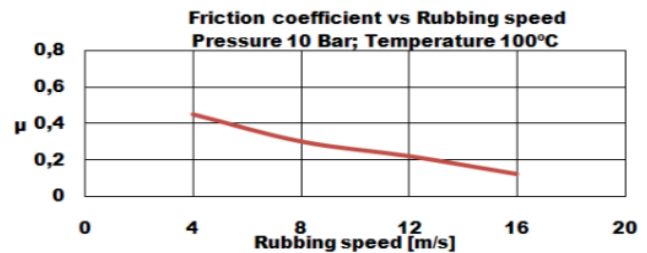
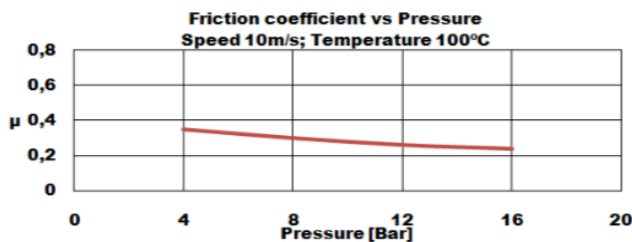
Others

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



Rubbing 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.