

ID Material: 16  
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# TF1700

TF1700 is a high-content Kevlar material designed for high performance motorsports clutch, severe service industrial brake and clutch applications. TF1700 virtually eliminates clutch slippage with a high torque capacity that avoids uncontrollable glazing

Additionally, TF1700 exhibits extraordinary wear life properties. When given a mating surface, clutch flywheel, brake rotor, or brake drum, it will dramatically outlast organic friction wear performance .

TF1700 is completely non-abrasive against mating surfaces, promotes smooth engagement, resists very high surface pressures at the brake interface, and is an effective alternative for sintered materials since it handles high energy inputs in both dry and oil-immersed applications.

TF1700 is available in flat sheets and in finished custom shapes and sizes, with thicknesses as low as 0.040"

## Material Data

### Friction Properties (according to graphics)

Dynamic Friction Coefficient:	0.65±0.05	μ
Wear Rate:	60 (at 150 °C)	
T° Fading:	>500	°C

### Physical Properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.27±0.1	gr/cm3

### Mechanical Properties

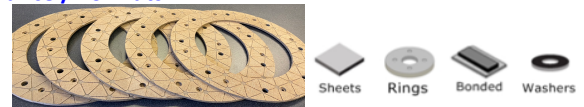
Tensile Strength (ASTM D638):	70±5 N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	300±50 N/mm <sup>2</sup>
Burst Resistant (200 x 137 x 3,5) 200°C:	18200±200 RPM
Poisson Coefficient (ASTM D638):	0.27±0.03
Young Modulus (ASTM D638):	7200±100 N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	300 °C
T° Max. Intermittent Operation:	450 °C

### Material Type : Paper Friction

### Appearance / Formats



### Applications

Agricultural and bulding machinery - Callipers for industrial applications - Car / motorcycle competition clutches - Clutch buttons - Friction Gasket - Heavy-duty industrial machinery - Micellaneous industrial brakes / clutches - Wet Friction -

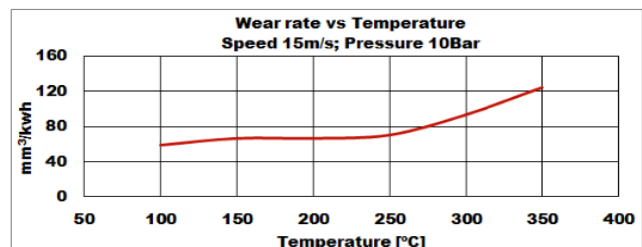
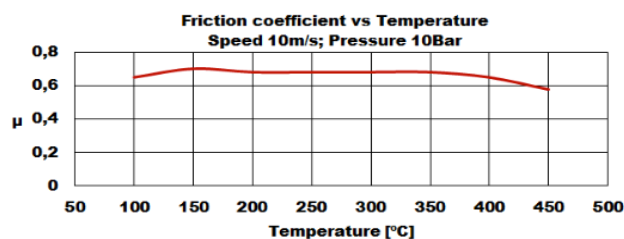
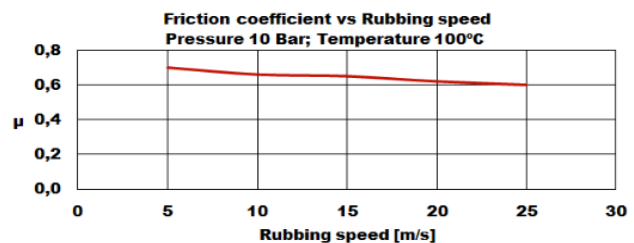
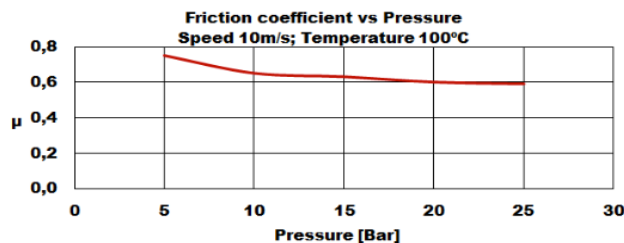
Price Level : \$ \$ \$ \$

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 others. The values shown represent typical conditions, but are not ultimate limits of the material