

TF2000 is our standard formulation and is principally intended for automotive clutch applications. Under normal operating conditions, TF2000 is a very reliable, hard wearing and economical material. The glass fiber reinforcement yarn is spiral woven with a fine copper core to produce a strong material with good heat transfer characteristics. TF2000 facings combine high resistance of bursting with smooth behavior. TF2000 clutch facings are suitable for automobiles and trucks. TF2000 is a medium high friction material with stable performance, low rate of wear, and long life performance.

### Friction Properties

Static Friction Coefficient (15bar, from box):  $0.55 \pm 0.05 \mu$   
 Static Friction Coefficient (15bar, 100°C):  $0.60 \pm 0.05 \mu$   
 Dynamic Friction Coefficient:  $0.55 \pm 0.05 \mu$   
 Wear Rate [ $\text{mm}^3/\text{kWh}$ ]:  $70 \pm 10$  (at 150°C)  
 T Fading:  $>300^\circ\text{C}/572^\circ\text{F}$

### Physical Properties

Hardness (DIN53505):  $85 \pm 5$  ShoreD  
 Specific Gravity (ASTM D792):  $1.87 \pm 0.05$  gr/cm<sup>3</sup>  
 Ignition Loss (ASTM D-2524):  $40 \pm 2$  %  
 Thermal Conductivity (ASTM E1952):  $0.244 \pm 0.03$  Wm<sup>2</sup>/K  
 Compressive Strength (ISO 844:2014):  $120 \pm 10$  N/mm<sup>2</sup>  
 Burst Resistant (200 x 137 x 3.5) 200°C:  $6500 \pm 100$  RPM

### Thermal Properties

Maximum Intermittent Operating Temp: 1220/482 °F/°C  
 Maximum Continuous Operating Temp: 662//400 °F/°C

### Material Type: Organic Clutch Friction

#### Appearance/Formats:

Rings, Gears  
 Blocks, Bonded Parts  
 Sheets

#### Applications

Automotive Clutches  
 Light Truck Clutches  
 Many Types of Industrial Clutches

### Compliance: Reach(EC)1907/2023 & RoHS2015/863/EU

#### Additional

Recommended Mating Surfaces: Pearlitic Cast Iron with Hardness HB150-200.  
 Recommended Adhesive: Thermosetting.  
 Oil Resistant: Yes.

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

