TF2025

Organic Metallic Clutch Material

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TF2025 is a special woven material that was designed to work at high temperatures with low wear. TF2025 has been reinforced with extra copper to increase friction performance. The glass fiber reinforcement yarn is spiral woven with a fine copper core to produce a strong material with good heat transfer characteristics. Better heat dissipation provides stable friction even at higher temperature. TF2025 clutch facings are suitable for performance automobiles and trucks.

Friction Properties

Static Friction Coefficient (15bar, from box): 0.45±0.05 µ
Static Friction Coefficient (15bar, 100°C): 0.45±0.05 µ
Dynamic Friction Coefficient: 0.45±0.05 µ
Wear Rate [mm^3/kWh]: 35 ± 10 (at 150°C)
T Fading: >400°C/752°F

Material Type: Organic Metallic Clutch Friction

Appearance/Formats:

Rings, Gears, Clutches
Blocks, Bonded Parts
Sheets

Physical Properties

Hardness (DIN53505): 80±5 ShoreD
Specific Gravity (ASTM D792): 2.1 ±0.05 gr/cm3
Ignition Loss (ASTM D-2524): 40±2 %
Compressive Strength (ISO 844:2014): 140±10 N/mm2
Burst Resistant (200 x 137 x 3.5) 200°C: 6500±100 RPM

Applications

Heavy Duty Automotive Clutches
Heavy Truck Clutches
Many Types of Industrial Clutches

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

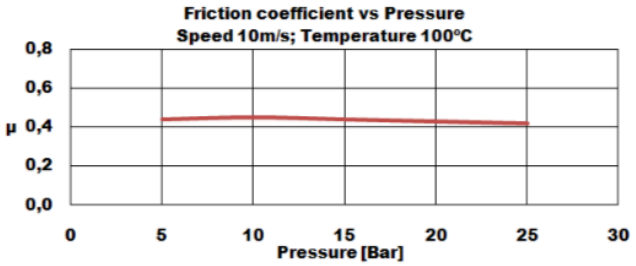
Thermal Properties

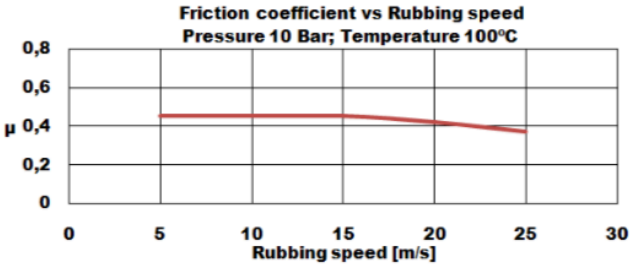
Maximum Intermittent Operating Temp: 1220/482 °F/°C
Maximum Continuous Operating Temp: 662/400 °F/°C

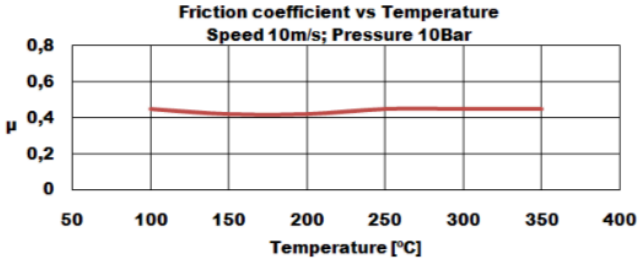
Additional

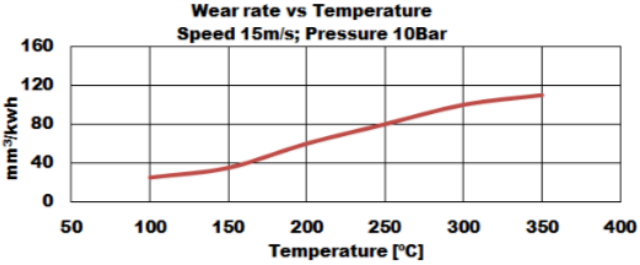
Recommended Mating Surfaces: Pearlitic Cast Iron with Hardness HB150-200.
Recommended Adhesive: Thermosetting.
Oil Resistant: Yes.

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









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.