

TTP128 has a structure of highly conductive fibers designed to provide outstanding thermal capability, good wear resistance and μ -V characteristics. The use of porous carbonaceous materials improves the stability of the torque curve over a wide range of temperatures and pressures. TTP128 offers a low static to dynamic coefficient of friction for enhanced engagement characteristics, excellent energy capability, low noise and vibration, with good wear resistance.

Friction Properties

Static Friction Coefficient: 0.09-0.12 \pm 0.05 μ

Dynamic Friction Coefficient: 0.12-0.13 \pm 0.05 μ

Material Type: Carbon Fiber Paper Matrix

Appearance/Formats:

Rings and flat pieces.

Bonded Parts.

With Optional Oil Grooves.

Physical Properties

Dynamic Pressure: 4.5 N/mm² (653 Lbf/in²)

Rubbing Speed: 45 m/s (147 Ft/sec)

Specific Power: 4.0 W/mm² (3.4 HP/in²)

Multi-pass tangential oil groove patterns in a variety of configurations. Grooves can either be pressed or machined.

Thickness: Max 1.50mm (0.05") to Min 0.40mm (0.02").

Diameter: Max 1,200 mm (47").

Applications

Transmission Clutches.

Limited Slip Differentials.

Wheel brakes.

Thermal Properties

Contact ProTec

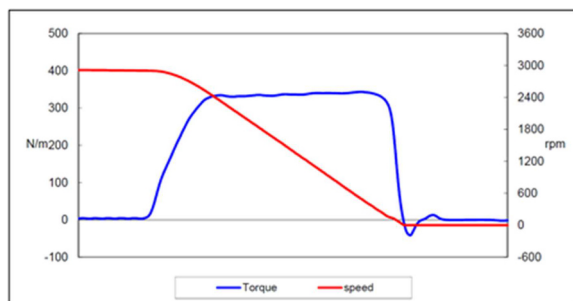
Compliance: Reach(EC)1907/2023 & RoHS2015/863/EU

Additional

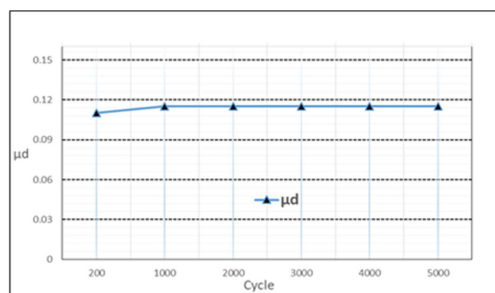
Recommended Mating Surfaces: Cast Iron with surface finish < 0.5 μ m Ra (20 μ in CLA).

Steel hardened & tempered, Cast Steel, Cast Gray Iron.

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



Torque Trace



Change of Dynamic Coefficient of Friction

Total cycles	5,000 cycles
Inertia	0.04 kgf·m·sec ²
Dynamic rpm	2940
Friction facing dimensions	Ø133.5mm × Ø99.0mm
Friction surfaces	4
Unit energy	0.74 J/mm ²
Unit pressure	2.0 Mpa
Oil type	Tractor oil
Oil temperature	80°C (\pm 5°C)
Arrangement	pDpDp

Test Conditions