



TTG149

Graphite Friction Material

Hopewell Junction NY
San Francisco CA
answers@protecfriiction.com
(914) 244-3600
www.protecfriiction.com

Updated: 10/25

TTG149 is a molded graphite material which has a highly percentage of carbonaceous materials, providing superior energy absorption. Its porous structure of graphite fibers and granulated particles provide excellent heat resistance and dissipation, as well as outstanding thermal stability in high energy applications. This material has a close relationship between static to dynamic coefficient of friction, giving smooth engagement & quiet operation, while offering high energy capability. Good oil compatibility. TTG149 is available in 0.5mm thickness through 1.5mm thicknesses.

Friction Properties

Static Friction Coefficient: 0.135-0.150 \pm 0.05 μ
Dynamic Friction Coefficient: 0.110-.125 \pm 0.05 μ

Material Type: Graphite Fiber Matrix

Appearance/Formats:

Rings, Gears.
Bonded Parts.
Grooved with various configurations.

Physical Properties

Dynamic Pressure: 3.5 N/mm² (508 Lbf/in²)
Rubbing Speed: 35 m/s (115 Ft/sec)
Specific Power: 4.0 W/mm² (3.4 HP/in²)
Energy Capacity: 210 J/cm²

Applications

Heavy Duty Powershift Clutches
High Load Differentials Clutches & Brakes
Miscellaneous Industrial Brakes & Clutches
Wet Brakes and Transmissions

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