

Material Description

G009 is a moulded graphite material with a high percentage of carbonaceous components that provide superior energy absorption.

- Outstanding thermal stability in high energy applications
- Stable coefficient of friction
- Good wear resistance

Typical Applications

- Heavy duty power shift clutches
- Wet Brakes
- Transmissions

Mating Material

- Surface finish < 0.5μm Ra (20μ")
- Steel
- Cast steel
- Grey cast iron

Friction Coefficient (wet)

- Static: 0.135 - 0.150
- Dynamic: 0.110 - 0.125

Recommended Load

- Max dynamic pressure: 3.5 N/mm² (508 Lbf/in²)
- Max rubbing speed: 35 m/s (115 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)
- Energy capacity: 210 J/cm²



Microstructure of G009 50X

Oil Grooving

- Sunburst and waffle
- Grooves are machined

Dimensions

- Friction thickness: 1.50mm (0.060") max
0.04mm (0.016") min
- Friction diameter: 660 mm (26") max

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

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