45 Kensico Drive
Mount Kisco, NY 10549
T. 914-244-3600

ID Material:

R. Antich

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TTC141

CARBON FRICTION MATERIAL

TTC141 has a highly porous structure of carbon fibers and granulated particles that provides excellent heat resistance and superior heat dissipation.

- **High energy capability**
- **Close to 1:1 relationship between static to dynamic coefficient of friction giving smooth engagement & quiet operation**
- **Stable coefficient of friction over speed and pressure**
- **Superior wear resistance**
- **Good oil compatibility**

Material Data

Typical Applications

- **High load differentials, clutches & brakes**

Mating Material

- **Steel**
- **Surface finish < 0.5µm Ra (20µin CLA)**
- **No special hardness requirements**

Microstructure of TTC141

Friction Coefficient (wet)

• Static:	0.105	-	0.115
• Dynamic:	0.100	-	0.110

Recommended Load

• Dynamic pressure :	6 N/mm² (870 psi)
• Rubbing speed :	17 m/s (56 Ft/sec)
• Specific power :	4 W/mm² (3.4 HP/in²)

Oil Grooving

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

Dimensions

• Friction thickness :	0.70 mm (0.028")
• Friction diameter :	Unlimited diameter in segment form Non-segmented: 200 mm (8")

Price Level : $$$$

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