



# CR30M

## Sintered Iron Friction Material

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CR30M is a severe service high performance synthetic sintered metallic friction material that outperforms OE premium and aftermarket service heavy duty ceramic and semi-metallic pads. CR30M advantages are derived from its ability to conduct heat away from the brake interface surface. The porosity caused by the finely granulated metallic and graphite particles, welded together in a matrix, allows air to circulate in the micro-pockets of the matrix. The macrostructure of the matrix is designed for both brake pad and brake rotor durability. Three high temperature synthetic graphite lubricants coat and protect the surface of the brake rotor, maintaining its surface integrity and effectiveness. The absence of phenolic binding resins means CR30M pads are completely inflammable, providing an additional safety advantage to all fleets, especially hazardous cargo.

### Friction Properties

Static Friction Coefficient : 0.450 ±0.05μ  
Dynamic Friction Coefficient: 0.40 ±0.05μ

### Material Type: Sintered Iron Matrix

### Appearance/Formats:

Brake Pads  
Bonded Parts

### Physical Properties

Tensile Strength: 6958 lbs. (3156 kgs.)  
Shear Strength: 6105 lbs. (2770 kgs.)  
Brinell Hardness: 15 HB.  
Density: .284 lbs./ft (4.15 g/cm).  
Swell at 200°C (392°F) -.02%.  
Swell at 400°C (750°F) -.06%.  
Fireproof, swell proof.

### Applications

Cycle-Duty Mining Trucks  
Front End Loaders  
Severe Service Racing  
Motorsports  
Heavy Duty On Highway

### Thermal Properties

800°C (1470°F) in intermittent service. Contact ProTec for more details.

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

### Additional

Recommended Mating Surfaces: Cast Iron with surface finish < 0.5μm Ra (20μin 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

