

Multibrake 2011F

Multibrake 2011F is a grey metal based friction material which is able to perform at very high temperatures. It offers good heat dissipation and high compression strength characteristics. Multibrake 2011F is composed basically of resins as a link system, frictional modifier agents, mineral and organic fibres. It has a high and very stable friction coefficient with low rate of wear and excellent resistance to fading. It is fully cured and suitable for bonding and riveting:

Multibrake 2011F is recommended for use in:

- Brake pads
- Heavy-duty industrial machinery
- Industrial clutches
- Machinery for mining industry
- Rotor brake
- Rings segments for machinery

Multibrake 2011F may be bonded using any of the established adhesives recommended for friction material.

Multibrake 2011F is oil resistant.

Properties	Units	
Shear strength (Ultimate)	MPa	-
Tensile strength (Ultimate)	MPa	35 +/- 5
Compressive strength (Ultimate)	MPa	185 +/- 5
Rivet holding capacity	MPa	-
Density	g/cm ³	2,7 +/-0,05
Thermal conductivity	W/m °C	1,53 +/- 0,01
Wear Rate (10 bar / 15 m/s)	mm ³ /Kwh	160 +/- 10
Wear Rate (79N / 7 m/s)	mm ³ /Kwh	-
Hardness	Shore-D	87 +/-5
Colour	-	Grey
Friction for design purposes		
Static (cold)	μ	0,40 +/-0,05
Static (100°C)	μ	0,43 +/-0,05
Dynamic (dry, 10 bar / 10 m/s)	μ	0,60 +/-0,05
Dynamic (79N / 7 m/s)	μ	-
Recommended Operating Range		
Max. pressure	Bar	-
Maximum rubbing speed	m/s	-
Maximum continuous temperature	°C	400

Maximum intermittent temperature	°C	450
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Availability:

Multibrake 2011F can be delivered as roll, cut-offs and finished parts.

Sheets: Size: 350 x 350 mm
 Thickness: 6 – 25 mm

Parts: Finished products conform drawing