

# Multibrake 3915

Multibrake 3915 is a non-asbestos, semi-flexible friction material. It is available in roll form and is suitable for use under dry operating conditions only (it is unsuitable for use in oil). Multibrake 3915 is sufficiently flexible, when supplied in rolls, to make fitting to curved metal parts a relatively simple operation, after which the heat generated in service will increase its strength and stiffness. Alternatively Multibrake 3915 can be heat treated in an oven at a temperature of between 200 & 230°C for a period of not less than 60 minutes, either before or after fitting. The frictional characteristics of Multibrake 3915 in both its initial flexible and rigid heat-treated states are virtually identical. It exhibits excellent temperature, wear resistance and is quiet in operation. This material is manufactured with a ground surface on both sides so may be bonded on either. Multibrake 3915 is specifically developed for bonding to brake shoes. It is suitable for riveting once fully cured.

Multibrake 3915 is recommended for:

- Industrial drum and band-brakes
- Crane and excavator brake and clutch linings
- Miscellaneous industrial devices

Multibrake 3915 can be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

Multibrake 3915 can be used against a mating surface from a good quality, fine grained, pearlitic cast iron or cold rolled steel with a Brinell hardness of 200. Cast steels are not recommended.

Properties	Units	
Shear strength	MPa	5,2
Tensile strength	MPa	7,6
Compressive strength	MPa	45
Density	g/cm <sup>3</sup>	1,71
Colour	-	Black / Dark Grey
Hardness	Shore D	65
Thermal Conductivity	W/m°C	0,51
<b>Friction for design purposes</b>		
Dynamic Friction Coefficient	μ	0,38
Static Friction Coefficient	μ	0,35
<b>Recommended Operating Range</b>		
Maximum pressure	MPa (dynamic)	0,070 – 0.86
	MPa (static)	0,070 – 2,410
Maximum rubbing speed	m/s	25
Maximum continuous temperature	°C	150
Maximum intermittent temperature	°C	250

Maximum temperature	°C	325
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**Availability:**

Multibrake 3915 can be delivered as sheet cut-offs and finished parts.

Rolls:           Maximum Length:           5000 mm  
                  Maximum width:           330 mm  
                  Thickness:                    3,0 – 12,7 mm

Parts:           Finished products conform drawing