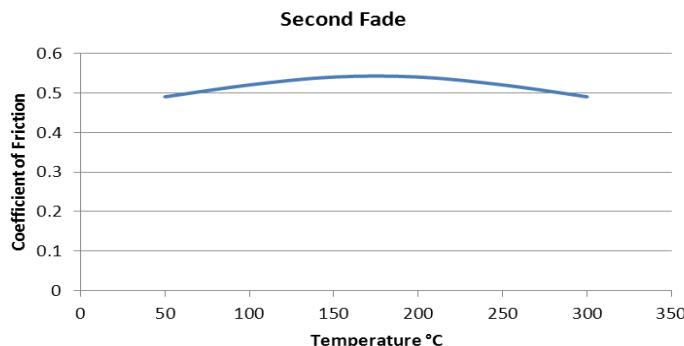


PRODUCT DATA SHEET

TRIMAT GBC



Material Description:

Trimat GBC is a semi-flexible asbestos-free brake lining, manufactured from a solid woven fabric of both natural and man-made yarns with a brass wire inclusion, which helps to stabilise the friction value by conducting heat from the operating surface. When the woven fabric is impregnated with the specially developed synthetic resin it produces a friction material with excellent stability and high resistance to wear. Both surfaces can be supplied ground, making it suitable for bonding and riveting to either internal or external contracting braking systems. This material can be supplied for use on oil immersed applications, although the friction value will be much lower than shown on the friction/temperature graph which is based on dry conditions. A most efficient general purpose brake lining suitable for use on most applications, including winches, cranes, earth-moving and agricultural equipment, forging machinery and many others. Because of its versatility it is of course an ideal quality to stock.

Technical Details:

Property	Typical Values	
Coefficient of Friction (dynamic)	0.48	
Wear Rate	11.0 mm ³ /MJ	(0.0018 in ³ /hp.hr)
Specific Gravity	1.24	
Rivet Holding Capacity	102.0 N/mm ²	(14790 psi)
Ultimate Tensile Strength	34.0 N/mm ²	(4930 psi)
Ultimate Shear Strength	27.7 N/mm ²	(4017 psi)
Ultimate Compressive Strength	137.0 N/mm ²	(19865 psi)

Recommended Operating Range:

Maximum Intermittent Temperature	230°C	(450°F)
Maximum Continuous Temperature	150°C	(300°F)
Pressure	0.07-2.0 N/mm ²	(10-290 psi)
Maximum Rubbing Speed	25 m/s	(5000 ft/min)

Recommended Mating Surfaces:

Close grained cast iron, forged or cold rolled steel should be 180 Brinnell or over.

Available Sizes:

Supplied in roll form, cut and shaped linings

Nominal Roll Lengths:	10 metres (33ft)
Thickness:	5.0mm (3/16") to 32mm (1 1/4")
Width:	up to 530mm (21")



NOTE: There is no standard test procedure for industrial Friction Materials, therefore it could be misleading to compare different manufacturers test results. The Co-efficient of Friction/Temperature Graph illustrated, should be used for comparison of the various Trimat qualities only.