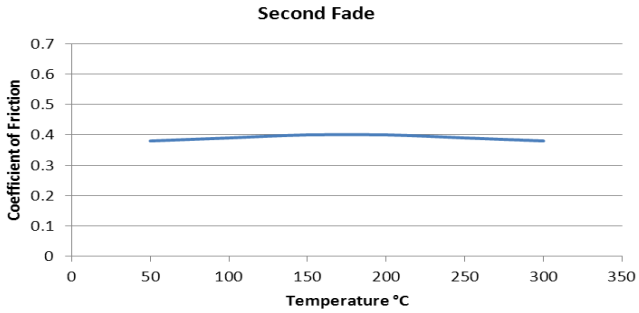
PRODUCT DATA SHEET

TRIMAT GZC



Material Description:

Trimat GZC is an asbestos-free brake lining, manufactured from a solid woven fabric of both natural and man-made yarns with a zinc 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 medium friction value 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.

Technical Details:

Property	**Typical Values**	
Coefficient of Friction (dynamic)	0.38	
Specific Gravity	1.24	
Rivet Holding Capacity	102.0 N/mm²	(14790 psi)
Ultimate Tensile Strength	40.0 N/mm²	(5800 psi)
Ultimate Shear Strength	25.0 N/mm²	(3625 psi)
Ultimate Compressive Strength	148.0 N/mm²	(21460 psi)

Recommended Operating Range:

Maximum Intermittent Temperature	230°C	(450°F)
Maximum Continuous Temperature	150°C	(300°F)
Pressure	0.07-2.0 N/mm²	(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 (1¼")
Width:	up to 510mm (20")

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.

Date of Publication: November 1995 **Revised: January 2005**