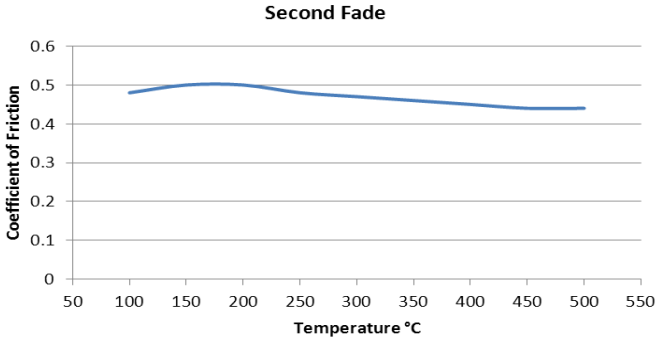
PRODUCT DATA SHEET

TRIMAT MN1070



Material Description:

MN1070 is a rigid moulded friction material, having a non-asbestos base of steel filaments in random dispersion. It contains a blend of carefully selected friction modifiers bound together with a specifically developed resin, which contributes to both strength and frictional characteristics.

This material has a medium/high friction level and displays good coefficient of friction stability over a wide range of operating temperatures. Especially suited to heavy-duty disc brake applications.

MN1070 has a balanced range of properties when considering such features as fade resistance, kindness to brake drum surfaces and wear resistance.

Technical Details:

Property	**Typical Value**	
Coefficient of Friction (dynamic)	0.46	
Specific Gravity	2.70	
Ultimate Tensile Strength	22 N/mm²	(3190 psi)
Ultimate Shear Strength	15 N/mm²	(2175 psi)
Ultimate Compressive Strength	94 N/mm²	(13630 psi)

Recommended Operating Range:

Maximum Intermittent Temperature	550°C	(1020°F)
Maximum Continuous Temperature	250°C	(480°F)
Pressure	0.4-5.2 N/mm²	(60 – 754 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:

The material can be supplied to drawing as part of a bonded or integrally moulded brake component complete with backing plate, or as a finished brake pad ready for assembly. It is also available in standard sheets for machining locally.

Standard Sheet Size:	600mm (23.6”) x 600mm (23.6”)
Thickness:	5.0mm (3/16”) to 50mm (2”)

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: June 2009**