



TRIMAT MN 1046 BRAKE LINING TECHNICAL SPECIFICATION SHEET

Trimat MN 1046 is a rigid fully moulded non-metallic non-asbestos material based on random dispersion of organic and inorganic fibres together with friction modifiers in a matrix of a special phenolic resin.

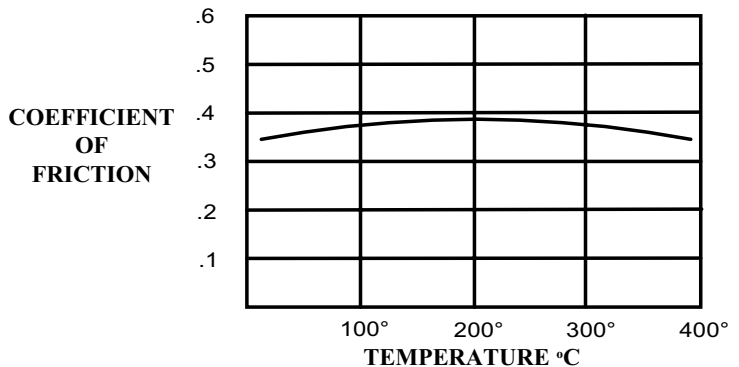
It has a medium friction characteristic and was developed specifically to have a balanced range of properties when considering such features as fade resistance, speed and pressure consciousness, kindness to ferrous mating surfaces and wear resistance.

APPLICATIONS

A very versatile material suitable for most Industrial Clutch and Brake applications requiring a non-asbestos type lining, including Power Presses for both Forging and Sheet Metal, Earth-Moving Equipment, Machine Tools etc.

The material is suitable for Gear-cutting.

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.



TECHNICAL DETAILS (MEAN VALUES)

Ultimate Tensile Strength	4000 psi (280kg/cm ²)	Rockwell Hardness	82
Ultimate Shear Strength (Perpendicular)	3000 psi (210kg/cm ²)	(R Scale)	
Ultimate Shear Strength (Parallel)	3500 psi (245kg/cm ²)	Compression	1.2 percent
		Specific Gravity	1.95

RECOMMENDED OPERATING TEMPERATURE

Maximum Temperature	400°C
Maximum Continuous Temperature	300°C

RECOMMENDED MATING SURFACES

Good quality close grain or alloy cast iron. All steels, except cast, with a Brinell hardness of 200 or over.

DRILLING DETAILS

High speed drills are quite acceptable at the following speeds:

Upto 3/8" diameter	1500 revs/min with feed rate 0.010"/rev.
3/8" to 3/4" diameter	1000 revs/min with feed rate 0.007"/rev.

TURNING & BORING

Cutting angles 3° top rake. 8° front rake and 8° side rake	
Cutting Speed.....	75ft/min
Feed Speed.....	120 cuts per inch

AVAILABILITY

Flat sheets 762mm x 762mm (30" x 30") are available in thicknesses 3 to 19mm (0.125" x 0.750") other sheets and shapes available in upto a maximum thickness of 80mm (3").