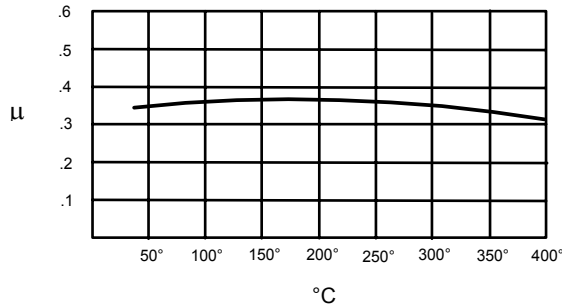


PRODUCT DATA SHEET
TRIMAT MN1046



Material Description:

Trimat MN1046 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.

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.

Technical Details:

Property	Typical Values	
Coefficient of Friction (dynamic)	0.35	
Wear Rate	50 mm ³ /MJ	(0.0082 in ³ /hp.hr)
Specific Gravity	1.95	
Shore D Hardness (as supplied)	82 R Scale	
Ultimate Tensile Strength (cured)	28.0 N/mm ²	(4060 psi)
Ultimate Shear Strength (cured)	24.5 N/mm ²	(3553 psi)
Ultimate Compressive Strength (cured)	150.0 N/mm ²	(21750 psi)

Recommended Operating Range:

Maximum Intermittent Temperature	400°C	(750°F)
Maximum Continuous Temperature	300°C	(570°C)
Pressure	0.07-2.0 N/mm ²	(10-290 psi)
Maximum Rubbing Speed	25m/s	(5000 ft/min)

Recommended Mating Surfaces:

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

Available Sizes:

Standard Sheet Sizes:	500mm (20") x 500mm (20")	762mm (30") x 762mm (30")
Thickness:	3.0mm (1/8") to 38.0mm (1 1/2")	3.0mm (1/8") to 19.0mm (3/4")

Also available in rings and special shapes

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.