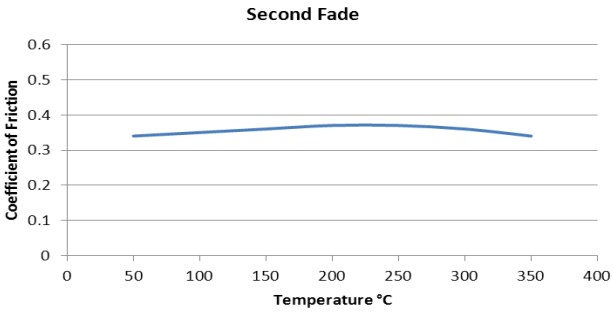
## PRODUCT DATA SHEET

# 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) | 0.37 | |
| Wear Rate | 50 $mm^3/MJ$ | (0.0082 $in^3/hp.hr$) |
| Specific Gravity | 1.95 | |
| Hardness | 82 R Scale | |
| Ultimate Tensile Strength | 28.0 $N/mm^2$ | (4060 psi) |
| Ultimate Shear Strength | 24.5 $N/mm^2$ | (3553 psi) |
| Ultimate Compressive Strength | 150.0 $N/mm^2$ | (21750 psi) |

**Recommended Operating Range:**

| | | |
|---|---|---|
| Maximum Intermittent Temperature | 400°C | (750°F) |
| Maximum Continuous Temperature | 300°C | (570°F) |
| 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: | 600mm (23.6”) x 600mm (23.6”) |
| Thickness: | 3.0mm (⅛”) to 38.0mm (1½”) |

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.

All data displayed is derived from product testing in a range of typical operating parameters, users are encouraged to independently qualify the material performance as suitable for their own specific requirements

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