

## High Performance Bearing Material

**TENMAT FEROFORM T814** is a composite material made from woven fibre bonded with resin and PTFE as a friction modifier.

FEROFORM T814 has been developed as a high performance bearing material for both wet and dry service, making it extremely useful in Hydro and Marine applications.

**TENMAT FEROFORM T814** replaces traditional grease lubricated bearings, promoting a cleaner environment whilst reducing operating cost.

The material is available as sheets (1220mm x 1220mm) in various thicknesses, rods and tubes (1200mm long) with external diameters ranging from 30mm up to 1175mm.

Fully machined components and parts to customer requirements and other sizes are available upon request.



PROPERTY	UNITS	T814
<b>Coefficient of Friction</b>	Dry	0.07 - 0.10
<b>Compressive Strength</b>	MPa	310 <sup>A</sup> / >400 <sup>B</sup>
<b>Normal Working Pressure</b>	MPa	75
<b>Compressive Yield</b>	% @ 68.9 MPa	4.3
<b>Impact Strength</b>	kJ/m <sup>2</sup>	83
<b>Shear Strength</b>	MPa	72
<b>Hardness</b>	Brinell	17
<b>Swell in Water</b>	% @ 20 °C	0.25
<b>Density</b>	g / cm <sup>3</sup>	1.31
<b>Coefficient of Thermal Expansion</b>	10 <sup>-6</sup> /°C Normal 10 <sup>-6</sup> /°C Parallel	43 31
<b>Maximum Continuous Operating Temperature</b>	°C	100
<b>Maximum Intermittent Operating Temperature</b>	°C	120

<sup>A</sup>A tested on BS2782 on 25 x 25 x 25 sample

<sup>B</sup>B tested on 50 x 50 x 5 sample, 400 MP is limit of test equipment  
Tested on sheets samples, PR18 tested on tube samples

The information contained in this data sheet is presented in good faith. They are typical test results tested generally in accordance with BS 2782 and ASTM test methods and should not be used for specifications. **TENMAT** does not warrant the conformity of its materials to the listed properties or their suitability for any particular purpose. For further information please contact our Technical Sales Department on +44 161 872 2181.