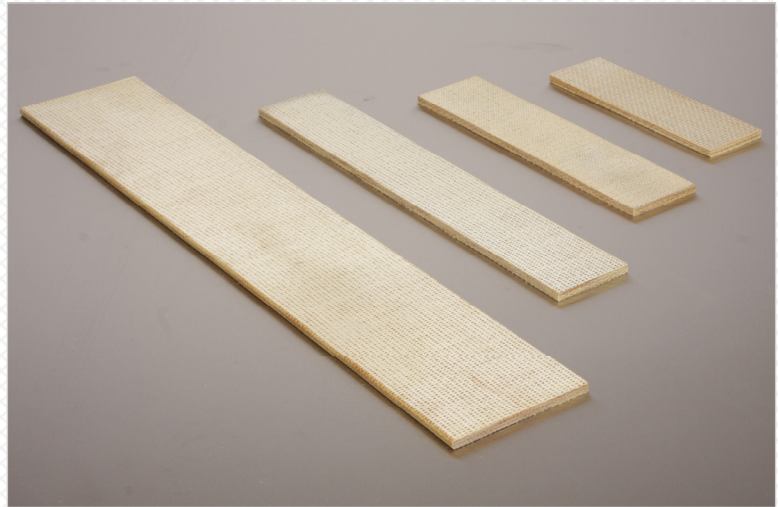


## High Performance Rotor Vane Material

**TENMAT** FEROFORM F57 is a high performance material for rotor vanes in vacuum pumps and compressors.

FEROFORM F57 is a cured phenolic resin matrix, reinforced with a specially engineered woven Kevlar fibre cloth.

**TENMAT** FEROFORM F57 exhibits superb stability under vacuum, insensitivity to moisture, excellent strength retention, and low noise.



The main areas of use are in single and two stage high vacuum pumps and compressors.

PROPERTY	UNITS	F57
<b>Flexural Strength</b>	MPa @ 20 °C	165
	MPa @ 200 °C (4 days)	68
	lbf/in <sup>2</sup> @ 20 °C	23,925
	lbf/in <sup>2</sup> @ 200 °C (4 days)	9,860
<b>Flexural Modulus</b>	GPa @ 20 °C	5.6
	GPa @ 200 °C (4 days)	4.9
	lbf/in <sup>2</sup> x10 <sup>6</sup> @ 20 °C	0.81
	lbf/in <sup>2</sup> x10 <sup>6</sup> @ 200 °C (4 days)	0.62
<b>Compressive Strength</b>	MPa	380
	lbf/in <sup>2</sup>	55,100
<b>Bond Strength</b>	KN @ 7.9 thick	4.6
<b>Scar Wear</b>	mm	4.3
<b>Density</b>	g / cm <sup>3</sup>	1.2
<b>Coefficient of Thermal Expansion</b>	10 <sup>-6</sup> /°C	11.5
<b>Maximum Continuous Operating Temperature</b>	°C	200

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.