

FEROFORM F3637 has been specially developed as a high-performance bearing material ideal for high temperature bearing applications.

This low friction composite material exhibits superior thermal insulation properties. Thus, FEROFORM F3637 has found success as the material of choice for load bearing insulation pads used to support Sulphur, asphalt, bitumen and coal tar tanks up to 280 °C. FEROFORM F3637 has low thermal conductivity and as such achieves a significant temperature difference across the pad thickness, offering full protection to ships' hulls from cargo heat whilst enabling thermal movement of the cargo tank.

FEROFORM F3637, reinforced with high-quality engineering fibres, has typically 4 times the load bearing capacity of traditional systems. This has meant that for 20 years F3637 components haven been specified on over 60 vessels of up to 37.000 tons in weight, classed by B.V., D.N.V., G.L., A.B.S., N.K.K., and Lloyds.

Properties	Units	
Coefficient of Friction (DRY)	-	0,13 – 0,15
Swell in Water @ 20 °C	%	0,5
Ultimate Compressive Strength	MPa	302 *A
	MPa	>400 *B
Compressive Yield @ 68,9 MPa	%	2,8
Normal Working Pressure	MPa	80
Thermal Expansion	Normal	10 ⁻⁶ /°C
	Parallel	10 ⁻⁶ /°C
Maximum Operating Temperature	Continuous	°C
	Intermittent	°C
Shear Strength	MPa	101
Impact Strength	kJ/m ²	90
Hardness	Brinell	38
Density	g/cm ³	1,54

*A Tested on BS2782 on 25 x 25 x 25 sample

*B Tested on 50 x 50 x 5 sample, 400 MPa is limit of test equipment

Availability:

Sheet:	Size:	1220 x 1220 mm
	Thickness:	2,4 – 40 mm
Tube:	Length:	1200 mm
	Minimum Inside diameter:	Ø20 mm
	Maximum Outside diameter:	On request
Rod:	Length:	1200 mm
	Diameter:	Ø19 – Ø111 mm