Tenmat Wear

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FEROFORM F3637

Tanker Pads - High Temperature

FEROFORM F3637 High Temperature Tanker Pads provide superior load bearing and temperature bearing capacity and therefore extended operational life with no maintenance required.

Wear Components

Product Description

For over 25 years FEROFORM F3637, high load and bearing insulation pads, have been the industry standard for tankers carrying heated bulk liquids in independent tank constructions. Approved by the main Marine Classification Societies, FEROFORM F3637 is designed to customer's requirements, easy and quick to install and is the ideal choice for new build and repairing or upgrading existing insulation systems. F3637 components have been specified on over 70 vessels of up to 37,000 tonnes in weight, classed by B.V., D.N.V., G.L., A.B.S., N.K.K., and Lloyds, to date.

FEROFORM F3637 is particularly suited to the insulating bearing pads of tankers carrying asphalt, bitumen, sulphur and coal tar tanks up to 280 °C. The combination of high insulation, low thermal expansion, and controlled friction means the tanks can expand freely without damage when they are filled and emptied.

FEROFORM F3637 has low thermal conductivity and as such achieves a significant temperature difference across the pad thickness as well as being reinforced with high-quality engineering fibres. These insulating tanker pads have typically 4 times the load bearing capacity of traditional systems.

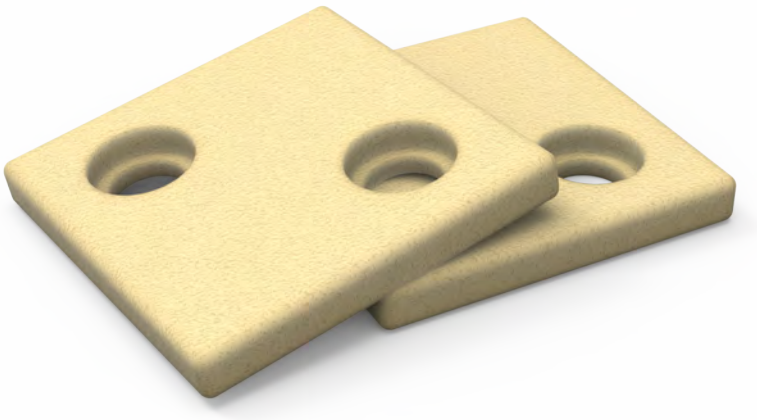
Product Advantages

- Easy to Install
- Maintenance Free, outlasting ships lifetime
- Superior Load Bearing Capacity to competing systems
- High Load Capacity means Fewer Pads required to Carry Cargo
- Low installation costs
- Controlled Tank Movement
- Can be used up to 300 °C
- Very Low Thermal Conductivity
- Controlled, Stable Friction
- Non-metallic Formulation
- Designed to meet Customer Requirements with full flexibility on pad sizes
- Supplied fully machined
- Optimized design using Finite Element Analysis (FEA)

FEROFORM insulation pads are maintenance free and will outlast the ship. No pad has ever required an in-service replacement. Leading ship owners continue to place their trust in Tenmat Wear for tankers and barges ranging from 1,000–37,000dwt.

Physical properties

Property	Units	F3637
Density	g/cm³	1.54
Flexural Strength	MPa	175
Flexural Modulus	GPa	7.7
Compressive Strength	MPa	300
Compressive Modulus	GPa	3.3
Tensile Strength	MPa	130
Charpy Impact Notched	kJ/m²	80
Shear Strength	MPa	100
Compressive Yield @ 68.9 Mpa	%	7.3
Brinell Hardness		38
Swell in Water (24 hours)	%	
20 °C		0.3
80 °C		1.3
Coefficient of Thermal Expansion	x 10-6/°C	
Parallel		19
Perpendicular		30
Coefficient of Friction (Unlubricated)		0.21-0.26
Maximum Operating Temperature	°C	
Continuous		200
Intermittent		300
Normal Working Pressure	MPa	80



Approved Applications

Insulating and support pads for hot cargo carrying ships such as; asphalt, bitumen, and sulphur.

Sizes

Our pad sizes are bespoke depending on the forces which they will see.

Intended use

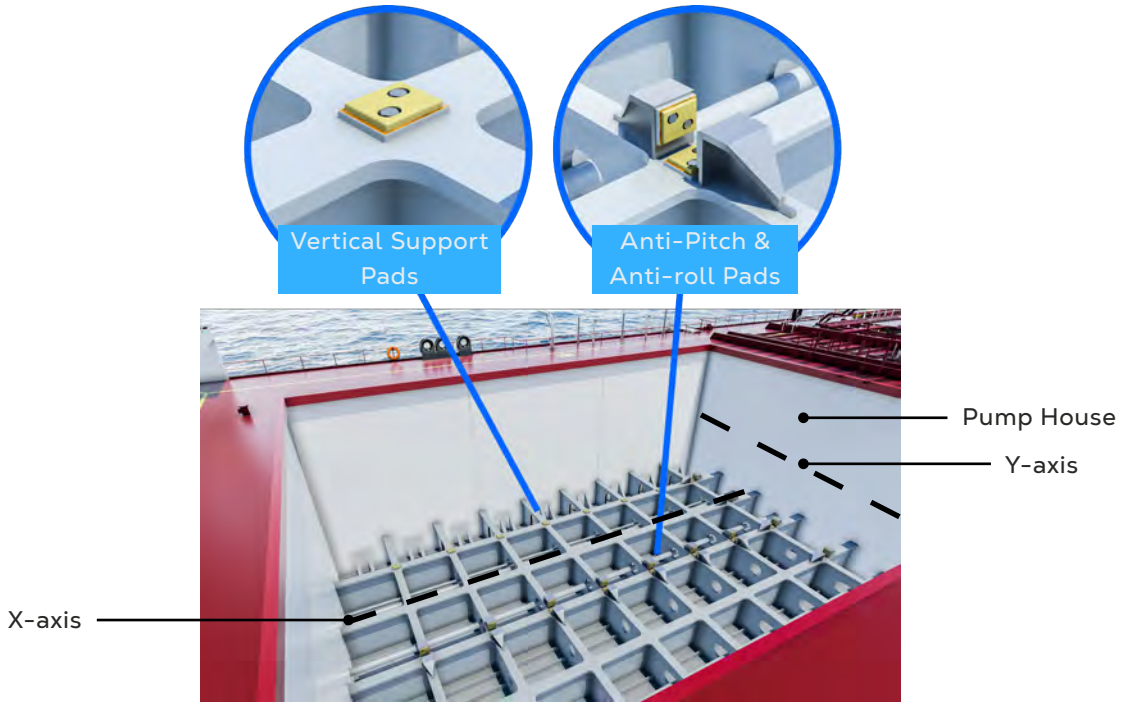
F3637 protects the ships hull from high temeperatures from the ships cargo it also takes the extreme loads and forces that they are subject to.

Warranty

All Tenmat Wear products come with a warranty for the life-time of the ship.

Storage

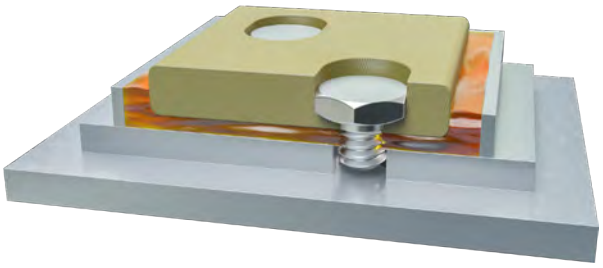
- Store in a cool dry place
- Take care not to exceed safe working loads and heights for storage shelves and racks



Typical Installations -for tank support and hull insulation pads

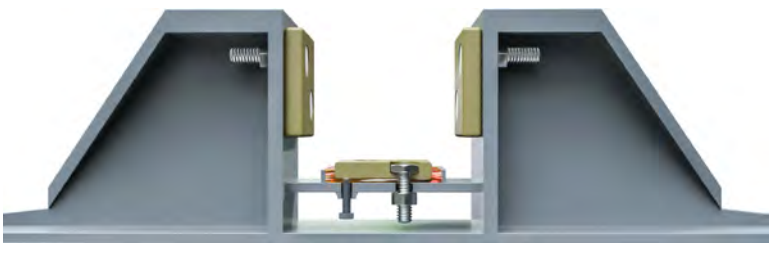
Typical support rib arrangement

Typical no penetration arrangement



Typical support pillar arrangement

Side load installation: Typical anti pitch / roll pad arrangement



Please request a Tenmat Wear installation manual for full details.

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