



# Pump Bearings

Bearing components for pumps; bearings, wear rings, thrust rings

Feroform and Railko non-metallic bearing components continue to be the superior choice for both pump manufacturers and end-users worldwide. Tenmat Wear materials convey all typical process liquids and offer a wide range of technical benefits, whilst reducing costs.

## Product Description

Proven to improve pump performance and increase working service lifetime, Ferroform and Railko non-metallic bearing components continue to be the superior choice for both pump manufacturers and end-users worldwide. This is achieved using high-temperature resins and abrasion-resistant fibre reinforcement and friction modifiers to enable dry start-up running.

Feroform and Railko materials boast a longer lifetime, low coefficient of friction, and an excellent resistance to high abrasion. They can convey all manner of fluids since they are resistant to all typical process chemicals. Their wide range of applications includes bushes, neck rings, wear rings, motor bushes and thrust discs. Ferroform and Railko pump bearings are a superior alternative to PEEK and rubber cutlass materials.

Tenmat Wear materials allow higher rotational speeds and bigger shafts. This is possible because Tenmat Wear materials offer superior load-bearing capacity and tighter running clearances. Self-lubricating Tenmat Wear materials avoid stick-slip of rotating parts thanks to a stable, low friction coefficient. This also reduces noise during operation. Tenmat Wear material ensures that a pump does not lose performance which is often seen when traditional bearing parts fail.

The high dimensional stability of Tenmat Wear materials means they have minimal swell or expansion when installed. Thus, tighter clearances are possible and there is no risk of seizure. The lifetime of a pump is extended because anti-corrosion Tenmat Wear bearings will outlast traditional materials. This allows longer service cycles between overhauls. The longer life of Tenmat Wear materials comes from their superior resistance to abrasive environments. Tenmat Wear offers a full machining capability with stock and quickest machining turnaround. In the event of breakdown repairs, replacement parts can be shipped quickly.

## Product Advantages

- Improved Pump Performance and higher pump capacities
- Improved pump reliability by avoiding risk of seizure or stick-slip
- Tighter running clearances and better support for rotating parts
- Longer pump work life
- Quick supply for emergency repairs thanks to strategic material stock and quick machining turnaround
- Lower Noise
- Protect against damage to internal pump components thanks to anti-corrosion material and better bearing capacity
- Dry Start up allowed
- High resistance to corrosion and heat

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**Physical Properties**

For all technical data, please view the Tenmat Wear Advanced Composite Laminates Datasheet.

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**Sizes**

Tenmat Wear can supply bearings up to nearly 2m in diameter, with tailored parts any size smaller than that.

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**Fitting Instructions**

Please consult Tenmat Wear for support on the various methods to install Tenmat Wear bearings. Typically, this includes interference fitment into a housing.

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**Intended use**

Feroform and Railko materials are intended for use as various types of load bearing components inside pumps.

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**Storage**

- Keep in packaging and do not open until ready to install
- To be stored in a dry location
- Take care not to exceed safe working loads and heights for storage shelves and racks



Railko RG12



Feroform T127



Feroform PR18



Railko NF22

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Tenmat Wear Ltd  
Northbanks Industrial Park  
Frank Perkins Way, Irlam  
Manchester  
M44 5EW United Kingdom

+44 161 4702689  
wpsales@diamorph.com

[tenmatwear.com](http://tenmatwear.com)



**Advanced materials.**  
[tenmatwear.com](http://tenmatwear.com)

Tenmat Wear warrants the materials it produces will conform to Tenmat Wear specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves of the suitability of the product for the intended application, carrying out testing where required. For construction projects, all products which the customer is intending to use on a particular project must be approved in writing by the customer's building designer, system designer or design control professional, to ensure compliance with the latest regulations.

The information contained in Tenmat Wear data sheets is presented in good faith. The values are "typical only" and are based on test results generally in accordance with BS2782, ASTM, a variety of other main test bodies along with Tenmat Wear internal test methods. These values should not be relied upon for specification purposes or the primary selection of materials. As the data sheet values are typical only, Tenmat Wear does not warrant the conformity of its materials to these properties or the suitability of its materials for any particular purpose. It is the responsibility of the customer to do the necessary testing and satisfy themselves the product is suitable for the intended application.

