

## TENMAT Marine Bearings: Superior Wear Resistance

*FEROFORM* and RAILKO bearings from **TENMAT** have significant better wear resistance than elastomers and polyester / polyester bearing materials, thus providing ship owners with longer service life and lower operating costs.

Tested in the **TENMAT** laboratory on the scar wear test rig gives effective analysis of the wear resistance of materials. *FEROFORM* and RAILKO showed considerable superior wear properties than elastomers and other composites (*FEROFORM* 11x and RAILKO 9x). Elastomers did not complete testing due to material burning out .

**TENMAT** are so confident of *FEROFORM* and RAILKO bearings and their superior performance that we offer a 15 year warranty.

*FEROFORM* and RAILKO marine bearings work with any type of water, run with smaller clearances than elastomeric bearings, are dimensionally and thermally stable, and have superior wear resistance. This gives superior performance and longer life.

*FEROFORM* and RAILKO marine bearings are available through a worldwide network of stock holding distributors and are available in tubes, half shells or stave bearings, including bronze housings if required.

### Applications

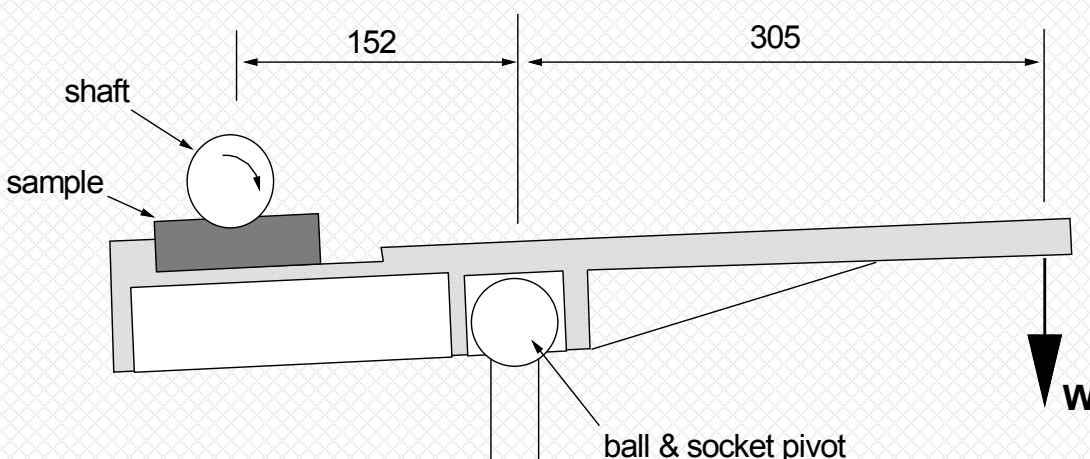
- Stern Tube Bearings
- Propeller Bearings
- Rudder Bearings
- Steering Gear Bearings
- Deck Equipment Bearings

### Key Benefits

- Market-Leading wear performance
- Clean water systems not required
- Excellent stability, minimal water swell and thermal expansion
- Low noise
- Shaft friendly
- Accepts misalignment
- Self-lubricating

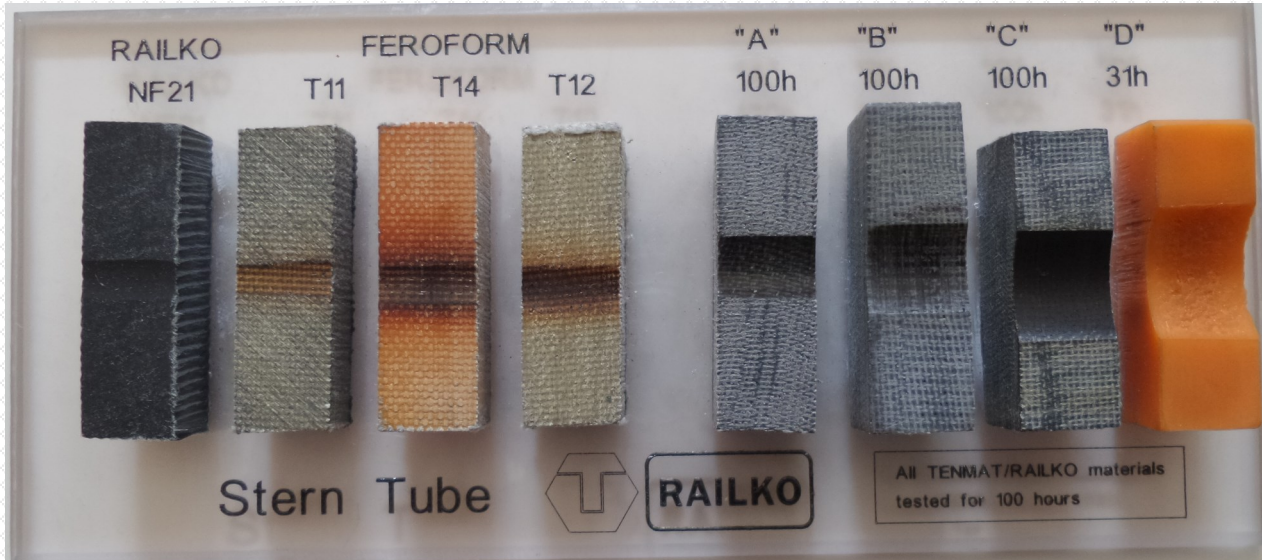
### Key Features

- Approved by all major classification societies
- Significant worldwide stocks
- Easy to machine, fit and install



*Schematic showing Scar Wear test rig. There are five stations.*

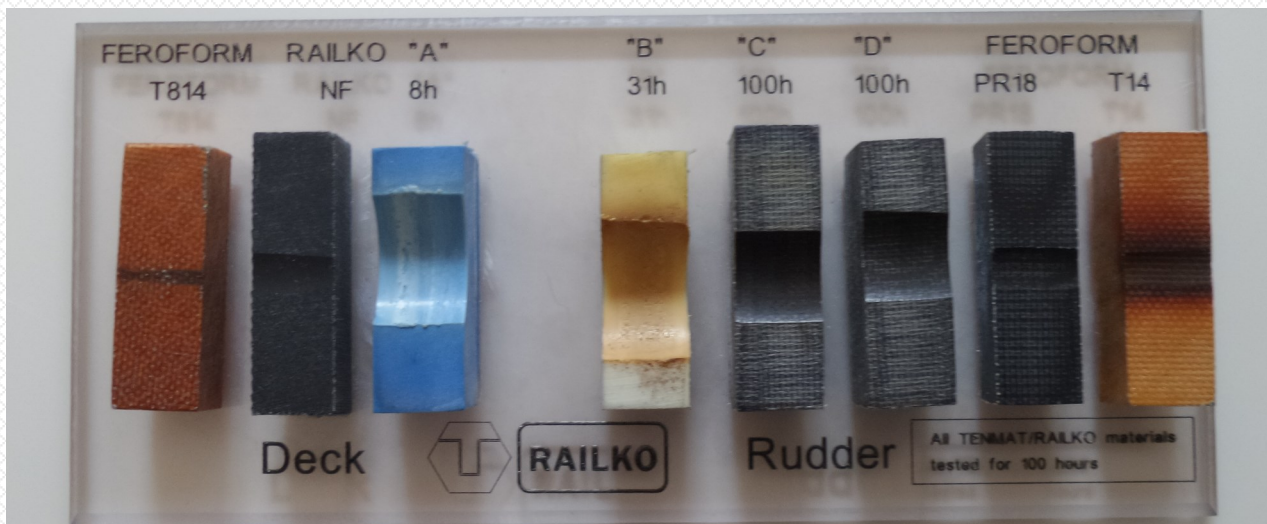
# TOTAL MARINE SOLUTIONS



Material	Scar Wear Volume (mm <sup>3</sup> )
RAILKO NF21	13.5
FEROFORM T11	8.8
FEROFORM T14	12.1
FEROFORM T12	12.7

Material	Scar Wear Volume (mm <sup>3</sup> )
Competitor "A" (polyester polyester with reinforced layer)	51.4
Competitor "B" (polyester polyester)	126.8
Competitor "C" (polyester polyester)	248.9
Competitor "D" (elastomeric)	365.2* (Burned out at 31 hours)

**Note:** The greater volumetric removal of material the more material wear and such indicates a lower bearing life expectancy. Elastomers failed after 1/3 of the test length.



Material	Scar Wear Volume (mm <sup>3</sup> )
FEROFORM T814	1.0
RAILKO NF21	13.5
FEROFORM PR18	21.1
FEROFORM T14	12.1

Material	Scar Wear Volume (mm <sup>3</sup> )
Competitor "A" (elastomeric)	819.3* (Burned out at 8 hours)
Competitor "B" (elastomeric)	939.8* (Burned out at 31 hours)
Competitor "C" (polyester polyester)	126.8
Competitor "D" (polyester polyester)	248.9

## CORPORATE HQ

### TENMAT Ltd.

Ashburton Rd West  
Manchester M17 1TD  
Tel.: +44 161 872 2181  
Email: marine@tenmat.com

## NORTH AMERICA

### TENMAT Inc.

23 Copper Drive  
Newport, DE 19804  
Tel.: +1 302 633 6600  
Email: info@tenmatus.com

## FRANCE

### TENMAT

56 Avenue Foch  
77370 Nangis  
Tel.: +33 1 60 58 56 56  
Email: info@tenmat.fr

## GERMANY

### TENMAT

Tel.: +49 7151 133 8468  
Email: info@tenmat.de

## ITALY

### TENMAT

Via Dante, 2/48  
16121 Genova  
Tel.: +39 10 545 1343  
Email: info@tenmat.it

## SCANDINAVIA

### TENMAT

Stureplan 15  
111 45 Stockholm  
Tel.: +46 8 612 68 50  
Email: info@tenmat.com