

RAILKO NF21 Composite Pump Impeller

TENMAT RAILKO NF21 composite pump impellers do not corrode in seawater, last longer than metal impellers, extend pump life, and vastly reduce both maintenance and operating costs.

Long Life

RAILKO NF has proven performance in marine, pump and other heavy duty applications, and does not corrode in seawater.

RAILKO NF is resistant to corrosion, erosion, electrolysis, chemical attack and cavitation. RAILKO NF can last up to 5 times longer than metal impellers.

Reduced Maintenance Costs

RAILKO NF is 1/6th the weight of a metal impeller. Heavy metal impellers can cause shaft misalignment, damaging the shaft and supporting components over time.

Lightweight RAILKO NF21 impellers maintain better shaft alignment. This puts less stress on the pump, extending the pump life and reducing maintenance costs.

Better alignment allows for the pump to be designed to tighter tolerances, increasing pump efficiency.

RAILKO NF is non-metallic, and does not support galvanic corrosion.

Key Features & Benefits

- No Corrosion
- Longer life
- Low Water Swell
- Cavitation and Erosion Resistant
- Does Not Support Galvanic Corrosion
- Self Lubricating
- High Strength
- 1/6th weight of metal
- Reduces Maintenance Costs

Main Applications

- Marine Pumps
- Water Recirculation Pumps
- Seawater Pumps
- Chemical Pumps
- Power Generation



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Improved Pump Performance

Metal pump impellers are subject to cavitation and corrosion, especially in seawater. The more the impeller degrades, the poorer the pump efficiency becomes. This requires more and more power from the motor.

TENMAT RAILKO NF21 composite impellers are corrosion and cavitation resistant, maintaining their shape for many years.

RAILKO NF21 impellers are machined from isotropic composite material, not cast to shape. This ensures that the impeller is equally balanced, and stays this way throughout the lifetime of the pump. The result of this is less vibration, which reduces damage to the pump, increases efficiency and reduces noise.

TENMAT are able to take a metal impeller, and redesign it for RAILKO NF21. This design incorporates the true working conditions of the pump, ensuring optimal performance and long life.

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