RAILKO
A TENMAT Brand

NF21/NF22

High Performance Bearing Material

TENMAT's proprietary self-lubricating composite material RAILKO NF21 and NF22 are widely recognized as the industry standard for demanding applications within the marine industry.

RAILKO NF22 has a unique resin bonded composite structure with added friction modifiers for longer maintenance intervals and quiet operation.

RAILKO NF21/NF22 have been the chosen bearing material for many marine applications offering low wear and friction rates, particularly in rudder and stern tubes applications.

RAILKO NF21/NF22 is approved by over 30 Navies worldwide and have over 25 years proven service in warships and submarines, ranging from patrol boats to aircraft carriers.

RAILKO NF21/NF22 bearings are offered in stave format, as fully cylindrical or split bearings and are approved by all major marine classification societies for propeller shaft and rudder bearing use.

PROPERTY	UNITS	NF21/NF22
Coefficient of Friction	Dry	0.36 - 0.4
Water Swell @20°C	%	0.2
Compressive Strength	MPa @ ambient	220
Normal Working Pressure	MPa @ ambient	55
Shear Strength	MPa @ ambient	41
Impact Strength (Charpy)	kJ/m^2	32
Hardness	Brinell	23
Coefficient of Thermal Expansion	$x10^{-6}/°C$	43
Maximum Continuous Operating Temperature	°C	120
Density	g / cm^3	1.64