nauticALLOY
Marine Propeller Shafting

MILLSTOCK stainless

nauticALLOY 4462

Material grade: nauticalloy 4462
duplex stainless steel

Characteristics: enhanced corrosion performance
dual-phase microstructure benefits
superior strength-to-weight characteristics

Technical Data

Chemical Composition	C	Si	Mn	P	S	Cr	Ni	Mo	N
% in weight (min)	-	-	-	-	-	21.00	4.50	2.50	0.10
% in weight (max)	0.03	1.00	2.00	0.03	0.015	23.00	6.50	3.50	0.22

Mechanical Properties	Proof Strength Rp0.2	Tensile Strength UTS	Elongation A	Red. of area %	Hardness BHN (max)
Metric units (MPa-N/mm^2)	>450	620 - 860	25	25	<290
Imperial units (ksi)	>65	90 - 125	25	25	<290
Related Specifications	Duplex F51	SAF 2205	UNS S31803	1.4462	

All Nauticalloy produced:

- can be supplied complete with 3rd party Inspection, testing and certification
- can be supplied with dimensional reports confirming diameter tolerance and straightness
- have a straightness tolerance up to Ø 80mm of 0.005" - 0.010" (0.127 mm - 0.254 mm) TIR and 85mm and above we aim for 0.010" (0.254 mm) TIR (TIR=Total Indicator Reading)

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