nauticALLOY
Marine Propeller Shafting

MILLSTOCK stainless

nauticALLOY 4501

Material grade: nauticalloy 4501
super duplex stainless steel

Characteristics: exceptional pitting resistance
enhanced dual-phase microstructure
superior strength-to-weight ratio

Technical Data

Chemical Composition	C	Si	Mn	P	S	Cr	Ni	Mo	N
% in weight (min)	-	-	-	-	-	24.00	6.00	3.00	0.20
% in weight (max)	0.03	1.00	1.00	0.035	0.015	26.00	8.00	4.00	0.30

Mechanical Properties	Proof Strength Rp0.2	Tensile Strength UTS	Elongation A	Red. of area %	Hardness BHN (max)
Metric units (MPa-N/mm^2)	>550	>750	25	25	<270
Imperial units (ksi)	>80	>110	25	25	<270
Related Specifications	Duplex F55	1.4501	UNS S32760		

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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