nauticALLOY
Marine Propeller Shafting

MILLSTOCK stainless

nauticALLOY 22HS

Material grade: nauticalloy 22HS
austenitic stainless steel

Characteristics: enhanced corrosion resistance
exceptional strength-to-weight ratio
non-magnetic characteristics

Technical Data

Chemical Composition	C	Si	Mn	P	S	Cr	Ni	Mo	N
% in weight (min)	-	-	4.00	-	-	20.50	11.50	1.50	0.20
% in weight (max)	0.06	1.00	6.00	0.04	0.03	23.50	13.50	3.00	0.40

Mechanical Properties	Proof Strength Rp0.2	Tensile Strength UTS	Elongation A	Red. of area %	Hardness BHN (max)
Metric units (MPa-N/mm^2)	>725	825 - 1150	15	45	<340
Imperial units (ksi)	>105	120 - 165	15	45	<340
Related Specifications	UNS S20910	XM-19HS	Nitronic 50	1.3964	

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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