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17-4 PH

APPLICABLE SPECIFICATIONS

ASTM-A564 Grade 630 H1150D, NACE MR0175/ISO15156, UNS S17400, W1.4542

A Martensitic stainless steel, with additions of Cu & Nb (Cb), which permit age hardening to a range of yield strength and hardness combinations. It allows high strength, corrosion resistance, impact properties and weldability.

TYPICAL APPLICATIONS

Valves & actuators, hydraulic accumulators, sealing products, downhole applications, pumps.

CHEMICAL ANALYSIS RANGE (WT%)

C	0.07 Max	Ni	3.00 - 5.00
Si	1.00 Max	Cr	15.00 - 17.50
Mn	1.00 Max	Cu	3.00 - 5.00
P	0.04 Max	Nb (Cb)+Ta	0.15 – 0.45
S	0.03 Max		

HEAT TREATMENT

SQA bar stock is in the H1150D, solution annealed & double Hardened condition. Other heat treatment conditions can be supplied upon request.

TYPICAL MECHANICAL PROPERTIES IN H1150D CONDITION

0.2% Yield Strength	105000 PSI min
Tensile Strength	125000 PSI min
Elongation	16% min
Reduction of Area	50% min
Hardness	33HRC Max
Charpy V Notch @ -60 DEG C	27/19 Joules

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