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ALLOY 716

APPLICABLE SPECIFICATIONS

ALLOY 625+, ASTM B805, API6A CRA, NACE MR-0175/ISO 15156, UNS N07716

A precipitation hardenable Nickel-Chromium-Molybdenum based super alloy with high strength combined with excellent corrosion resistance. Offers similar strength to Alloy 718 with additional benefit of corrosion resistance similar to that provided by Alloy 625

CHEMICAL ANALYSIS RANGE (WT%)

С	0.03 Max	Ni	59.0 – 63.0	Al	0.35 Max
Si	0.2 Max	Cr	19.0 – 22.0	Fe	Balance
Mn	0.2 Max	Мо	7.00 – 9.50	В	0.006 Max
Р	0.015 Max	Nb (+ Ta)	2.75 – 4.00	Cu	0.23 Max
S	0.01 Max	Ti	1.00 - 1.60	Pb	0.001 Max

HEAT TREATMENT

SQA bar stock is in the Solution Annealed and Aged condition. Material may be supplied Solution Annealed only upon request.

TYPICAL MECHANICAL PROPERTIES IN SOLUTION ANNEALED & AGED CONDITION

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0.2% Yield Strength	120000 PSI Min			
Tensile Strength	150000 PSI Min			
Elongation	20% Min			
Reduction of Area	35% Min			
Hardness	32 - 43 HRC Max (NACE)			
Charpy V-Notch @ 60 DEG C	43/37 Joules			

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