

C276 NICKEL ALLOY - UNS N10276

MATERIAL DESCRIPTION

Alloy C276 (UNS N10276) is an austenitic nickel-molybdenum- chromium alloy with a small addition of tungsten. C276 is a corrosion resistant alloy with very good resistance to reducing and mildly oxidizing corrosives and excellent stress corrosion cracking resistance. Typically used in Chemical processing, energy, pollution control, oil and gas & pharmaceutical industries.

APPLICABLE SPECIFICATIONS

ASTM B564, ASME SB-564

ASTM B574, ASME SB-574

NiMo16Cr15W

W-Nr 2.4819

ANSI/NACE MR0175/ISO15156-3, ANSI/NACE MR0103

PED 2014/68/EU

HEAT TREATMENT

Intoco bar stock is in the Solution Annealed condition

CHEMICAL ANALYSIS RANGE

ELEMENT	WEIGHT %	ELEMENT	WEIGHT %
C	0.010 Max.	W	3.0 – 4.5
Mn	1.0 Max	Fe	2.00 – 6.00
P	0.04 Max	V	0.35 Max
S	0.03 Max	Mo	15.0 – 17.0
Si	0.08 Max	Co	2.5 Max
Ni	Balance	Cr	14.5 – 16.5

TYPICAL MECHANICAL PROPERTIES (Min unless stated)

0.2% Yield ksi (MPa)	UTS ksi (MPa)	Ductility		Full size (10mm x 10mm) Charpy V Notch @ -18°C	Hardness HBW (HRB)
		%EI 4D	%RA	Ft-lbs (J)	
45 (310)	100 (690)	40	40	20 (27) avg	140- 240 (76 – 100)

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