



Grade	Code	UNS	Nickel Alloys
C-276	2.4819	N10276	

### Nickel Alloy Properties

Alloy C276 is a nickel molybdenum chromium alloy which is one of the most corrosion resistant alloys available today, and can be used in a broad range of environments and media. The solution annealed material is immune to chloride-induced stress corrosion cracking, while the high molybdenum and chromium content enhance performance in both oxidising and reducing environments. Alloy C-276 also displays excellent resistance to pitting and crevice corrosion. For this reason, Alloy C276 is the material of choice for chemical and petrochemical applications. The product is ductile, weldable and easily formed.

### Chemical Composition (Alloy C276)

Ni %	Cr %	C %	Mo %	Mn %	Si %	Co %	V %	W %	Fe %
Balance	14,50 – 16,50	0,01 max.	15,00 – 17,00	1,00 max.	0,08 max.	2,50 max.	0,35 max.	3,00 – 4,50	4,00 – 7,00

### Mechanical Properties

Product Form	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness[RB]	Density [g/cm <sup>3</sup> ]
Bar	363	758	62	88	8,89
Tubing	313	727	70	92	
Plate	347	741	67	89	

### Suitable For

Alloy C-276 (UNS N10276) is used in stack Liners, ducts, dampers, scrubbers, stack gas re-heaters, heat exchangers, reaction vessels and evaporators.

### Remarks

One of the most corrosion resistant alloys available Ductile, weldable and easily formed Ideal for chemical, petrochemical and offshore

### Specification

Alloy C-276, 2.4819, N10276,

### Norm

ASTM B 462, ASTM B 564 & ASME SB 564, ASTM B 574 & ASME SB 574, NACE MR0175/MR0103