

HASTELLOY® C-276

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM B574 ASTM B575 ASTM B619 ISO 15156-3 (NACE MR 0175)	Excellent corrosion resistance in a wide range of corrosive media including, sulphur compounds and chloride ions Excellent resistance to pitting, crevice corrosion and stress corrosion cracking Withstands the corrosive effects of wet chlorine gas, hypochlorite and chlorine dioxide Good for sea water applications	Chlorination systems Nuclear fuel reprocessing Pickling systems Chemical processing Marine industries
Mo	15.00	17.00			
Cr	14.50	16.50			
Fe	4.00	7.00			
W	3.00	4.50	Designations		
Co	-	2.50	W.Nr. 2.4819 UNS N10276 AWS 054		
C	-	0.010			
Si	-	0.08			
Mn	-	1.00			
V	-	0.35			
P	-	0.04			
S	-	0.03			
Ni	BAL				

Density	8.89 g/cm ³	0.321 lb/in ³
Melting Point	1370 °C	2500 °F
Coefficient of Expansion	11.2 µm/m °C (20 – 100°C)	6.2 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	78.6 kN/mm ²	11400 ksi
Modulus of Elasticity	205.5 kN/mm ²	29806 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed or Spring Temper	Stress Relieve	400 – 450	750 – 840	2	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	850 – 1050	123 – 152	-200 to +400	-330 to +750
Spring Temper	1300 – 1700	189 – 247	-200 to +400	-330 to +750

The above tensile strength ranges are typical. If you require different please ask.