

key advantages to you, our customer



0.025mm to 21mm (.001" to .827")



Order 3m to 3t (10 ft to 6000 Lbs)



Delivery: within 3 weeks



Wire to your spec



E.M.S available



Technical support

HASTELLOY C-4 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

Packaging

- Coils
- Spools
- Bars or lengths

Trade name of Haynes International.

Technical Datasheet AWS 052 Rev.2 HASTELLOY C-4





Chemical Composition		Specifications	Key Features	Typical Applications		
Element	Min %	Max %	ASTM B574	Excellent resistance to stress-corrosion	Chemical processing	
Cr	14.00	18.00	ASTM B575 ASTM B619	cracking and to oxidizing atmospheres at high temperature Exceptional resistance to a wide variety of chemical process environments including, hot contaminated mineral acids, solvents, chlorine, formic and acetic acids and salt waters		
Мо	14.00	17.00				
Fe	-	3.00	Designations			
С	-	0.015	W.Nr. 2.4610			
Si	-	0.08	UNS N06455 AWS 052			
Со	-	2.00	71113 032			
Mn	ı	1.00				
Р	ı	0.04				
S	-	0.03				
Ti	-	0.70				
Ni BAL						

Density	8.64 g/cm ³	0.312 lb/in ³	
Melting Point	1399 ℃	2550 °F	
Coefficient of Expansion	10.8 μm/m °C (20 – 100 °C)	6.0 x 10 ⁻⁶ in/in °F (70 – 212 °F)	
Modulus of Rigidity	81.2 kN/mm²	11777 ksi	
Modulus of Elasticity	212.4 kN/mm²	30807 ksi	

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

Properties						
Condition	Approx. tensile stren	gth	Approx. operating temperature			
Condition	N/mm²	ksi	°C	°F		
Annealed	800 – 1100	116 – 159	-200 to +400	-330 to +750		
Spring Temper	1300 – 1700	189 – 247	-200 to +400	-330 to +750		

 $\label{thm:continuous} The above tensile strength \ ranges \ are \ typical. \ If you \ require \ different \ please \ ask.$







