



HAYNES[™] 214

Key Features

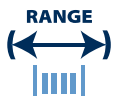
Resistance to oxidation that far exceeds most heat resistant alloys at temperatures of 955 °C (1750 °F) and above

**High temperature static applications

IMPORTANT

We will manufacture to your required mechanical properties.

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

HAYNES[™] 214 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



Trade name of Haynes International.

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	- Designations W.Nr. 2.4646 UNS N07214 AWS 061	Resistance to oxidation that far exceeds most heat resistant alloys at temperatures of 955 °C (1750 °F) and above **High temperature static applications	Mesh belts Trays and fixtures for the firing of pottery and china, and the heat treatment of electronic devices and technical grade ceramics
Al	4.10	5.00			
B	-	0.004			
C	-	0.05			
Nb/Cb	-	0.15			
Co	-	2.00			
Cr	15.00	17.00			
Fe	2.00	4.00			
Mg	-	0.01			
Mn	-	0.50			
Mo	-	0.50			
Ni	BAL				
P	-	0.015			
S	-	0.015			
Si	-	0.20			
Ti	-	0.50			
W	-	0.50			
Y	0.003	0.04			
Zr	-	0.02			

Density	8.05 g/cm ³	0.291 lb/in ³
Melting Point	1400 °C	2550 °F
Coefficient of Expansion	13.3 µm/m °C (20 – 100 °C)	7.4 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	84 kN/mm ²	12183 ksi
Modulus of Elasticity	217 kN/mm ²	31474 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 depending on load** and environment	
	N/mm ²	ksi	°C	°F
Annealed	<1200	<174	-200 to +1100	-330 to +2010
Spring Temper	1300 – 1700	189 – 247	-200 to +1100	-330 to +2010

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

**Static applications = still/fixed/motionless/rigid