



HASTELLOY[™] X



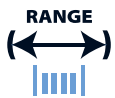
Key Features

- Exceptional oxidation resistance
- Highly resistant to stress corrosion cracking in petrochemical 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
(10ft to 6000Lbs)



Delivery:
within 3 weeks



Wire to your spec



E.M.S available



Technical support

HASTELLOY[™] X 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 %	AMS 5754 AMS 5798 ASTM B619 GE B50A463 GE B50A655 ISO 15156-3 (NACE MR 0175)	Exceptional oxidation resistance Highly resistant to stress corrosion cracking in petrochemical applications	Gas turbine engines Industrial furnaces Chemical processing Petrochemical processing	
Cr	20.50	23.00				
Mo	8.00	10.00				
Fe	17.00	20.00				
W	0.20	1.00				
C	0.05	0.15				
Si	-	1.00				
Co	0.50	2.50				Designations
Mn	-	1.00				W.Nr. 2.4665 UNS N06002 AWS 057
P	-	0.04				
S	-	0.03				
B	-	0.01				
Ni	BAL					

Density	8.22 g/cm ³	0.297 lb/in ³
Melting Point	1355 °C	2470 °F
Coefficient of Expansion	13.9 µm/m °C (20 – 100 °C)	7.7 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	77.6 kN/mm ²	11255 ksi
Modulus of Elasticity	205 kN/mm ²	29733 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	1350 – 1550	196 – 225	-200 to +400	-330 to +750

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