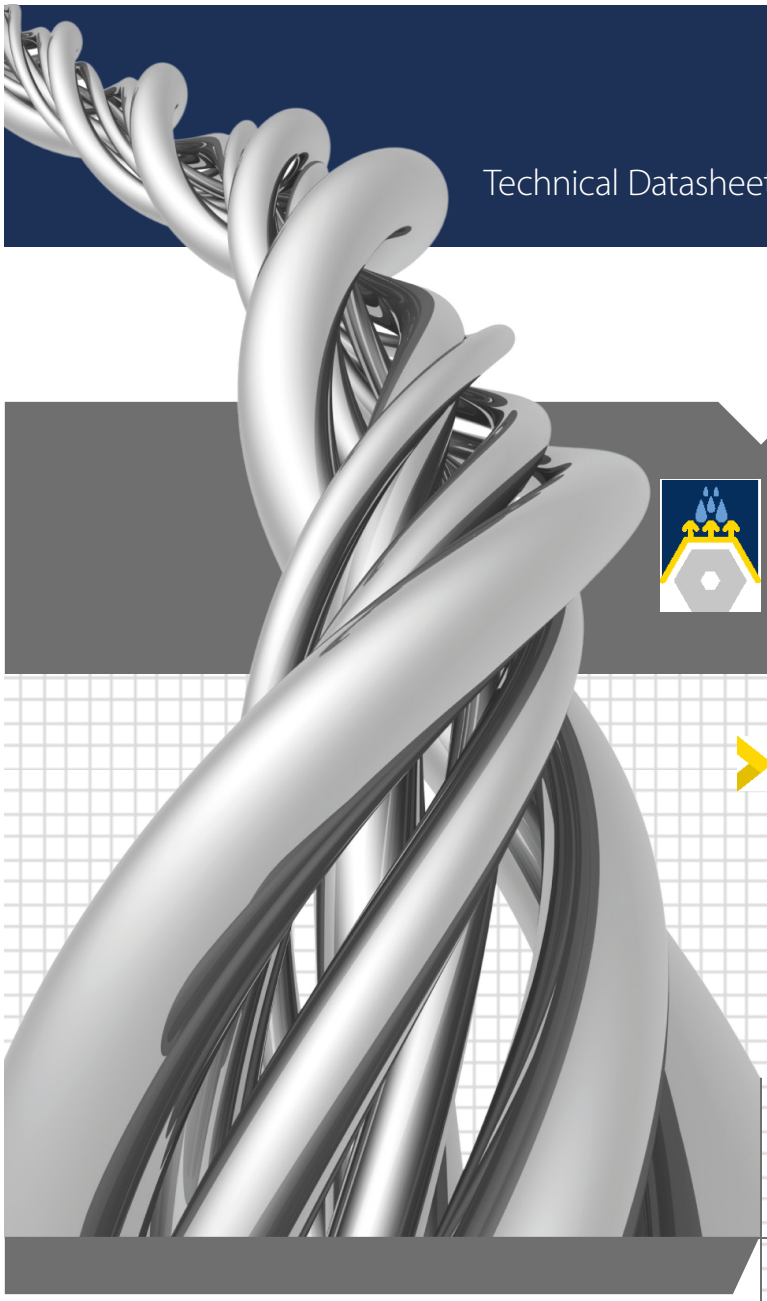

HASTELLOY˜ C-4

Key Features

Excellent resistance to stress-corrosion 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

IMPORTANT
We will manufacture to your required mechanical properties.

key advantages to you, *our customer*

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

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

DELIVERY 3 WEEKS
Delivery:
within 3 weeks

Wire to your spec

E.M.S available

HOW CAN I HELP?
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.3**

HASTELLOY® C-4

alloy wire international

Chemical Composition		
Element	Min %	Max %
Cr	14.00	18.00
Mo	14.00	17.00
Fe	-	3.00
C	-	0.015
Si	-	0.08
Co	-	2.00
Mn	-	1.00
P	-	0.04
S	-	0.03
Ti	-	0.70
Ni	BAL	

Specifications

ASTM B574
ASTM B575
ASTM B619

Designations

W.Nr. 2.4610
UNS N06455
AWS 052

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Typical Applications

Chemical processing

Density	8.64 g/cm^3	0.312 lb/in^3
Melting Point	1399 °C	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/mm^2	11777 ksi
Modulus of Elasticity	212.4 kN/mm^2	30807 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	<1100	<159	-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.

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