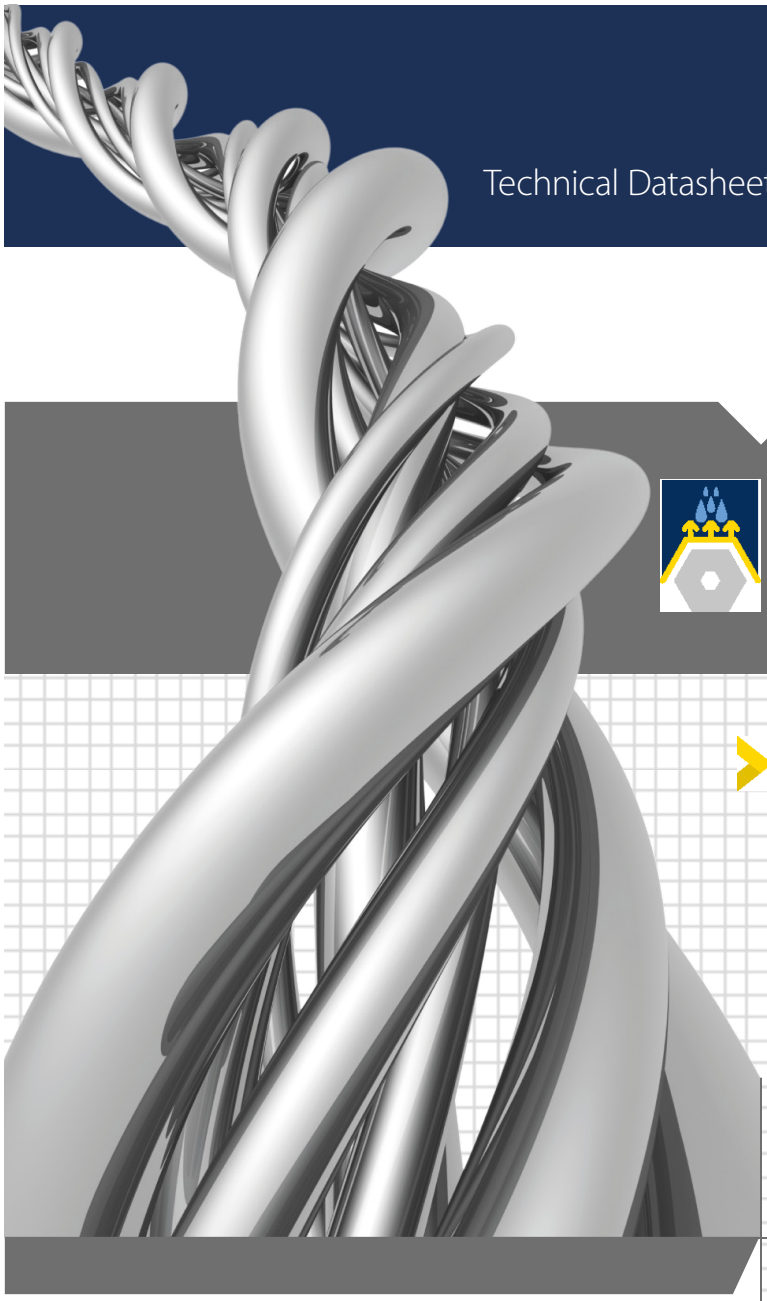

HASTELLOY˜ C-276

Key Features

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

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-276 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths

˜Trade name of Haynes International.

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Technical Datasheet **AWS 054 Rev.3**

HASTELLOY® C-276

alloy wire international

Chemical Composition		
Element	Min %	Max %
Mo	15.00	17.00
Cr	14.50	16.50
Fe	4.00	7.00
W	3.00	4.50
Co	-	2.50
C	-	0.010
Si	-	0.08
Mn	-	1.00
V	-	0.35
P	-	0.04
S	-	0.03
Ni	BAL	

Specifications

ASTM B574
ASTM B575
ASTM B619
ISO 15156-3
(NACE MR 0175)

Designations

W.Nr. 2.4819
UNS N10276
AWS 054

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Typical Applications

Chlorination systems
Nuclear fuel reprocessing
Pickling systems
Chemical processing
Marine industries

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	<1050	<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.

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AS 9100 Aerospace & Defence
ISO 9001 Quality Management
ISO 14001 Environmental
ISO 45001 Health & Safety