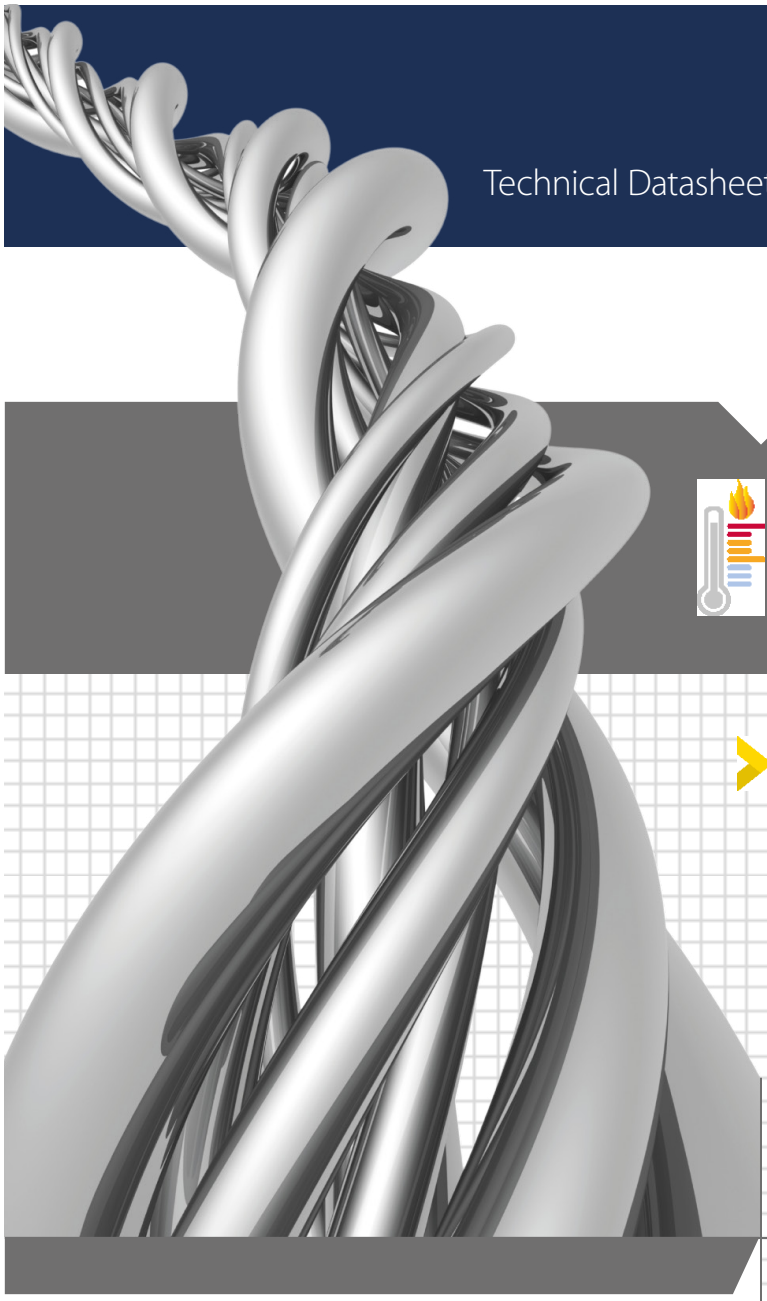


INCOLOY® A-286

Key Features

High strength and good corrosion resistance at high temperatures

Age hardenable

Good for high temperature fasteners

****High temperature static 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

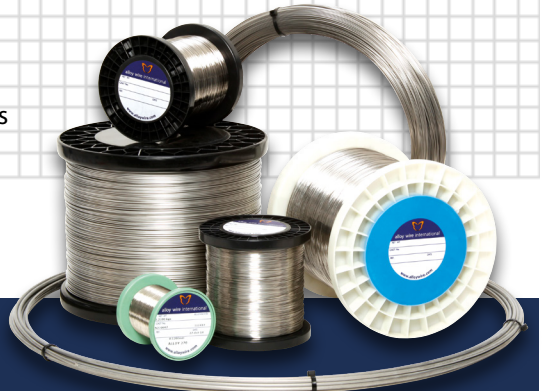
HOW CAN I HELP?
Technical support

INCOLOY® A-286 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



*Trade name of Special Metals Group of Companies.

Technical Datasheet **AWS 023 Rev.2**

INCOLOY® A-286

alloy wire international

Chemical Composition		
Element	Min %	Max %
C	0.03	0.08
Mn	1.00	2.00
Si	-	0.50
P	-	0.02
S	-	0.015
Cr	13.50	16.00
Ni	24.00	27.00
Mo	1.00	1.50
Ti	1.90	2.30
B	0.003	0.01
V	0.10	0.50
Co	-	1.00
Al	-	0.35
Cu	-	0.50
Pb	-	0.005

Specifications

AMS 5731
AMS 5734
AMS 5737
AMS 5853
ASTM A453
BS HR 52
BS HR 650
ISO 15156-3
(NACE MR 0175)

Designations

W.Nr. 1.4944
W.Nr. 1.4980
UNS S66286
AWS 023

Key Features

High strength and good corrosion resistance at high temperatures

Age hardenable

Good for high temperature fasteners

**High temperature static applications

Typical Applications

Jet Engines

Super Chargers

Afterburner Parts

Fasteners

Density	7.94 g/cm^3	0.287 lb/in^3
Melting Point	1430 °C	2600 °F
Coefficient of Expansion	16.4 µm/m °C (20 – 100 °C)	9.1 x 10^{-6} in/in °F (70 – 212 °F)
Modulus of Rigidity	71.5 kN/mm^2	10370 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	Age Harden	705 – 760	1300 – 1400	16	Air

Properties				
Condition	**Approx. tensile strength**		**Approx. operating temperature depending on load** and environment**	
	N/mm^2	**ksi**	**°C**	**°F**
Annealed	<750	<109	-200 to +400	-330 to +750
Annealed + Aged	950 – 1300	138 – 188	-200 to +400	-330 to +750
Spring Temper	1050 – 1250	152 – 181	-200 to +400	-330 to +750
Spring Temper + Aged	1200 – 1500	174 – 218	-200 to +400	-330 to +750

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

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

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