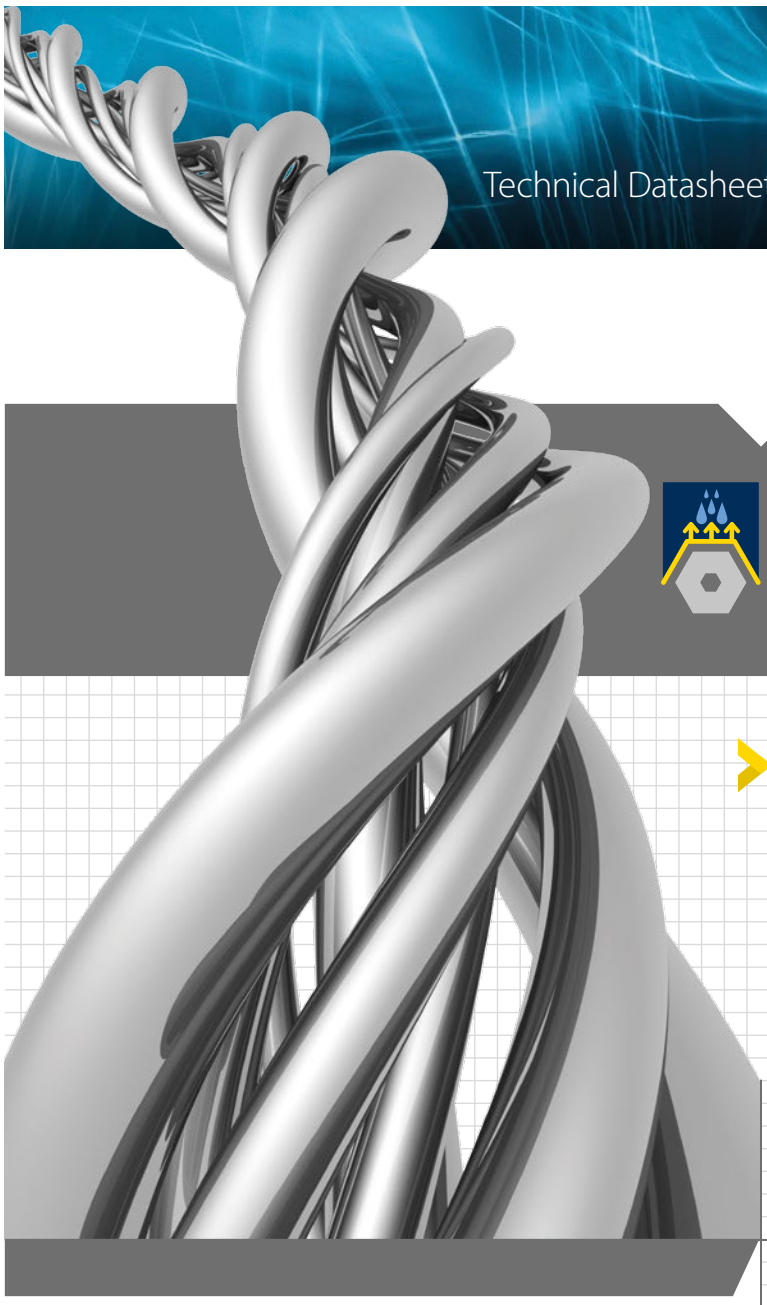
alloy wire international



TITANIUM Gr. 2

Key Features

Good strength to weight ratio, maintained at high temperatures

One of the softer and more ductile grades of pure Titanium

Corrosion resistant in oxidizing and in mildly reducing environments

Good formability

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

TITANIUM Gr. 2 available in:-

- Round wire
- Bars or lengths
- Flat wire

Packaging

- Coils
- Spools
- Bars or lengths

Technical Datasheet **AWS 152 Rev.1**

TITANIUM Gr. 2

alloy wire international

Chemical Composition		
Element	Min %	Max %
N	-	0.03
C	-	0.08
H	-	0.015
Fe	-	0.25
O	-	0.25
Residuals	-	0.40
Ti	BAL	

Specifications

ASTM B348
ASTM F67

Designations

W.Nr. 3.7035
UNS R50400
AWS 152

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Typical Applications

Aerospace
Automotive
Chemical Processing

Density	4.51 g/cm3	0.163 lb/in3
Melting Point	1670 °C	3040 °F
Coefficient of Expansion	8.6 µm/m °C (20 - 100 °C)	4.8 x 10-6 in/in °F (70 - 212 °F)
Modulus of Rigidity	40 – 45 kN/mm²	5800 – 6530 ksi
Modulus of Elasticity	105 – 120 kN/mm²	15230 – 17400 ksi

Heat Treatment of Finished Parts

Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed	Stress Relieve	540	1000	0.5 - 2	Air
Spring Temper	Stress Relieve	250	480	0.5	Air

Properties

Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm²	ksi	°C	°F
Annealed	300 - 400	44 - 58	-200 to +400	-330 to +750
Spring Temper	550 - 850	80 - 123	-200 to +400	-330 to +750

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

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