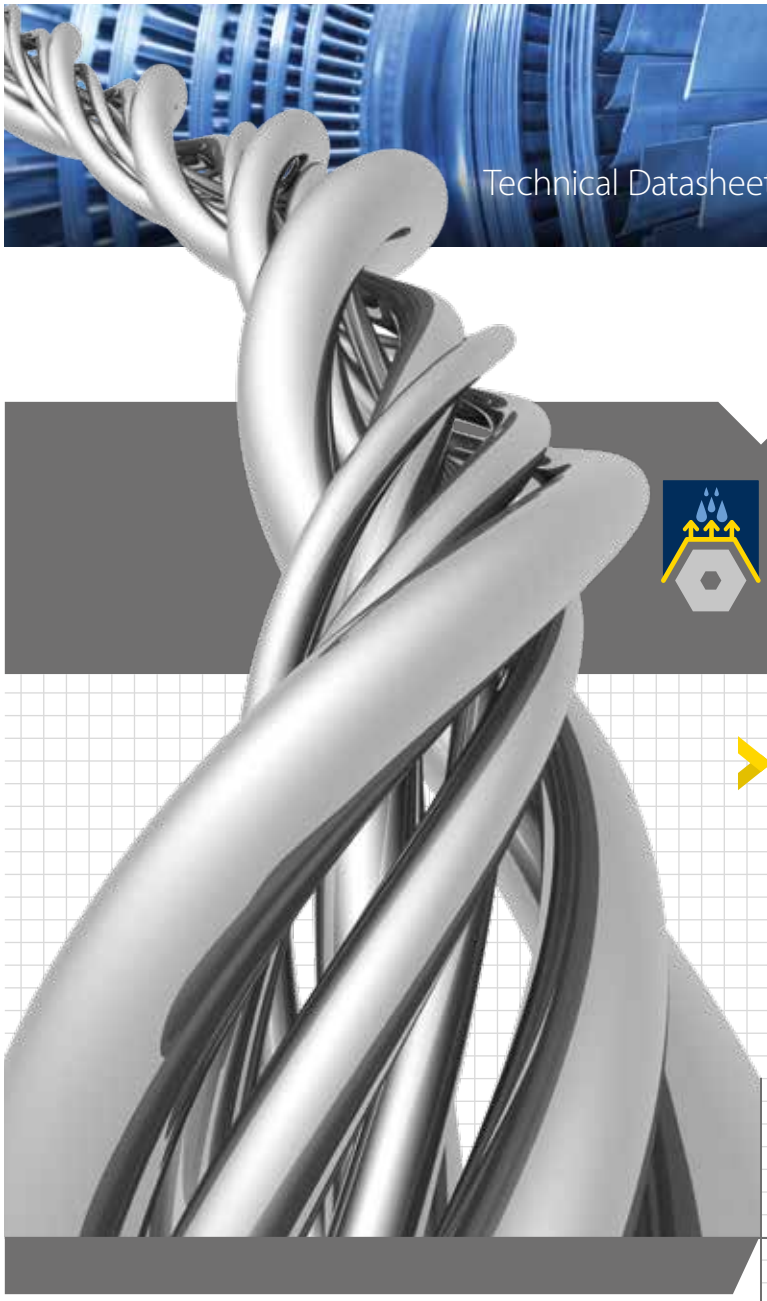
alloy wire international



STAINLESS STEEL 316 LVM

Key Features

Regarded as 'Medical Grade' stainless steel vacuum melted to achieve the extremely high levels of purity and 'cleanliness' required for surgical implants

Good mechanical properties and corrosion resistance

Better pitting and crevice corrosion resistance than 302 & 304 stainless

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

STAINLESS STEEL 316 LVM available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths

Technical Datasheet **AWS 163 Rev.2**

STAINLESS STEEL 316 LVM

alloy wire international

Chemical Composition		
Element	Min %	Max %
C	-	0.03
Si	-	1.00
Mn	-	2.00
P	-	0.025
S	-	0.010
N	-	0.10
Cr	17.00	19.00
Mo	2.25	3.50
Ni	13.00	15.00
Cu	-	0.50
Fe	BAL	

Specifications

ASTM F138
BS 7252 Pt1
COMPOSITION D
ISO 5832 - 1

Designations

W.Nr. 1.4441
UNS S31673
AWS 163

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Typical Applications

Medical implants

Machined parts

Density	8.0 g/cm^3	0.289 lb/in^3
Melting Point	1500 °C	2730 °F
Coefficient of Expansion	16.5 µm/m °C (20 – 100 °C)	9.2 x 10^{-6} in/in °F (70 – 212 °F)
Modulus of Rigidity	70.3 kN/mm^2	10196 ksi
Modulus of Elasticity	187.5 kN/mm^2	27195 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	250	480	1	Air

Properties				
Condition	**Approx. tensile strength**		**Approx. operating temperature**	
	N/mm^2	**ksi**	**°C**	**°F**
Annealed	<800	<116	-200 to +300	-330 to +570
Spring Temper	1300 – 2200	189 – 319	-200 to +300	-330 to +570

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

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