



# STAINLESS STEEL 316 LVM

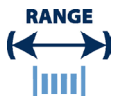
## Key Features

- 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



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



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



Delivery:  
within 3 weeks



Wire to your spec



E.M.S available



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



# STAINLESS STEEL 316 LVM

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM F138 BS 7252 Pt1 COMPOSITION D ISO 5832 - 1  <b>Designations</b>  W.Nr. 1.4441 UNS S31673 AWS 163	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 and 304 stainless	Medical implants Machined parts
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				

<b>Density</b>	8.0 g/cm <sup>3</sup>	0.289 lb/in <sup>3</sup>
<b>Melting Point</b>	1500 °C	2730 °F
<b>Coefficient of Expansion</b>	16.5 µm/m °C (20 – 100 °C)	9.2 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	70.3 kN/mm <sup>2</sup>	10196 ksi
<b>Modulus of Elasticity</b>	187.5 kN/mm <sup>2</sup>	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 <sup>2</sup>	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.