

316LVM Stainless

Smiths Advanced Metals



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Modified 316L Stainless Steel Bar

High levels of purity & cleanliness.

316LVM is often referred to as a medical-grade alloy due to the materials continued use in medical implants.

The alloy is modified from 316L stainless steel to produce an alloy with high levels of purity and cleanliness, which is achieved by vacuum remelting during the production process. The material also offers improved crevice corrosion and pitting resistance compared to stainless steel alloys 302 and 304 due to the addition of molybdenum in the alloying process. The alloy's chemistry is modified to promote the best possible corrosion resistance, which results in a free ferrite microstructure.

316LVM offers superior general and intergranular corrosion resistance in biological environments. The alloy is also non-magnetic and retains these properties even after cold forming. Typical applications include dental implants, cardiac stents, bone screws and surgical implements.

We stock bars [316LVM stainless steel bars](#) in various sizes available for immediate supply.



Grades / Specifications

- 1.4441
- AISI 316LVM
- UNS S31673
- ASTM F138

Benefits

- Excellent structural homogeneity
- Excellent micro-cleanliness
- High fatigue strength
- Resistance to intergranular corrosion

* Chemical Composition (weight %)

	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	Co	Fe
min.							17.00	2.25	13.00			Bal
max.	0.03	0.75	2.00	0.025	0.01	0.10	19.00	3.00	15.00	0.50	0.10	

* As per ASTM F138

Medical Applications

316LVM finds use in various medical applications due to the alloys attractive chemistry and performance characteristics.

The alloy offers good ductility and is highly suitable for applications including catheters, suture wire, dental and medical implants, skin closure staples and cardiac stents. [Smiths Advanced Metals](#) not only stocks and supplies 316LVM - we also process your bars in-house.



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