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316LVM vacuum-melted stainless steel

Medical stainless steel | Mozaic Precision Metals technical reference

The qualifying standard and melt route matter more than a generic 316L trade label.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	316LVM vacuum-melted stainless steel
Alloy or product family	Medical stainless steel
Chemical / material identity	Vacuum melted 316L alloy often supplied for implant applications under demanding standards
Selection consideration	The qualifying standard and melt route matter more than a generic 316L trade label
Condition / temper	Specify ASTM F138/F139 or ISO 5832-1 only where the product actually complies
Reference standard to verify	ASTM F138/F139 and ISO 5832-1 where applicable
Typical applications	Orthopedic implants, surgical shafts, implant-machined components
Limits / cautions	ISO 9001 is not a medical device or implant certification; MTR/melt data and inclusion controls required

RELATED MATERIAL CONSIDERATIONS

Compare generic 316/316L versus implant-quality 316LVM.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify ASTM F138/F139 or ISO 5832-1 only where the product actually complies.

SOURCING & QUALITY NOTE

Mozaic reviews precision grinding, straightening, polishing, cutting and packaging to order-specific requirements. Numeric strength, chemistry and condition limits must be checked against the applicable specification and actual mill test report.

Reference starting point: SAE J403: Chemical Compositions of SAE Carbon Steels

Material page: https://mozaicprecision.com/material/316lvm/

General reference: not a mill test report, certified analysis, stock guarantee or design approval.