Austenitic steel

July 2016 - rev.1.0

KLEINOX 4441 LVM

DIN X2CrNiMo18-15-3
ASTM F138
ISO 5832-1

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	N%	Cu%
Max	Max	Max	Max	Max	17,00	2,70	13,00	Max	Max
0,03	0,75	2,00	0,025	0,003	19,00	3,00	15,00	0,10	0,50

USES AND APPLICATIONS

KLEINOX 4441 (AISI 316 LVM) is an austenitic steel for implantology, with high corrosion resistance and ESR remelted. It is a Ni-Cr alloy with high Mo content. KLEINOX 4441 remains nonmagnetic, also after many cold forming procedures.
This steel is well indicated for the production of surgical instruments and implant screws.

EXECUTIONS

Diameters	1.00 – 15.00 mm
Tolerances	ISO h8 (up to h5)
Delivery conditions	in cold drawn or ground bars 3m and Coils

MECHANICAL PROPERTIES

Tensile Strength	K 860 (screws and surgical instruments) ca 900-1150 N/mm2 extra hard > 1400 N/mm2
Heat treatment	not adapted to hardening
Cutting speed	20-30 m/min

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.

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