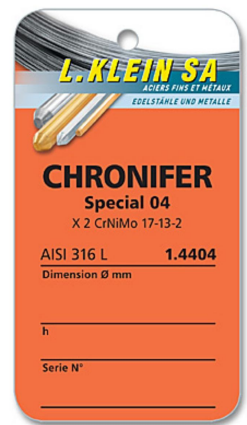


L. KLEIN SA

ACIERS FINS ET MÉTAUX

EDELSTÄHLE UND METALLE

FINE STEEL AND METALS



CHRONIFER Special 04 austenitic Stainless Steel

Material No.	DIN Abbreviation	AFNOR	AISI/SAE/ASTM	ISO	Euro Standards	Others
1.4404	X2CrNiMo17-12-2	X2CrNiMo17-12-2 (former Z 3 CND 17.11.02)	~ 316L			SUS 316L

Distinctive feature and main attribute: a rust- and acid-proof, free cutting chromium-nickel-molybdenum-steel alloy, widely used to meet the requirement of higher resistance to corrosion than the qualities of 1.4031/06, 1.4310, 1.4305. Its ease of machinability is due to little copper content and better structure of metal, applicable to welding and polishing.

Use and application range: this alloy is required for the chemical, medical and pharmaceutical industry, the mechanical engineering, the automobile and construction industry, kitchen furnishings, dairies and brewery.

CHEMICAL COMPOSITION IN VOLUME PERCENTAGE	C	Si	Mn	S	Ni	Mo	Cr	Cu	Fe
	max. 0.03	max. 1.00	max. 2.00	max. 0.03	10.00 14.00	2.00 3.00	16.00 18.00	0.70 1.00	balance

EXECUTION DELIVERY FORM STANDARD SIZES AVAILABILITY	<ul style="list-style-type: none">• Execution in 3 m round bars (2 m) or square and hexagonal as well in coils• Standard size of \varnothing 15.00 – 40.00 mm• Other sizes on request
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TOLERANCES	<ul style="list-style-type: none">• \varnothing 15.00 – 40.00 mm, cold drawn, ground; ISO h8; surface finish Ra 0.8• Tighter tolerances on request
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MECHANICAL PROPERTIES	At delivery status: <ul style="list-style-type: none">• Tensile strength (R_m): 600 – 980 MPa, size depending
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HEAT TREATMENT	<ul style="list-style-type: none">• Soft annealing: 1010 – 1120 °C, cooling in water• Hardening and tempering by heat treatment is impossible
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CUTTING RATES	<ul style="list-style-type: none">• $v_c \sim$ 35 – 55 m/min, short-chipping, value depending on the lubrication oil, cutting tools and shape of parts.• Cutting oil: e.g. INOX or ORTHO NFX of Motorex
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Modifications will not be adjusted automatically

L. KLEIN SA
Längfeldweg 110
P.O. Box 973
CH-2501 Biel/Bienne

telephone 0041 (0) 32 341 73 73
telefax 0041 (0) 32 341 97 20

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www.kleinmetals.ch
info@kleinmetals.ch