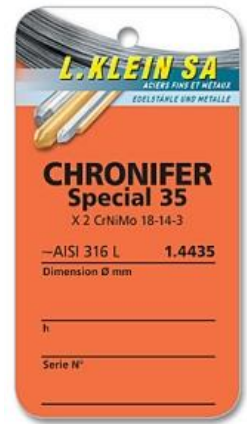


L. KLEIN SA

ACIERS FINS ET MÉTAUX

EDELSTÄHLE UND METALLE

FINE STEEL AND METALS



CHRONIFER Special 35 austenitic Stainless Steel

Material No.	DIN Abbreviation	AFNOR	AISI/SAE/ASTM	ISO	Euro Standard EN	Others
1.4435	X2CrNiMo18-14-3	X2CrNiMo18-14-3 (former Z 3 CND 17.11.03)	AISI ~ 316L		X2CrNiMo18-14-3	JIS ~ SUS 316

Distinctive feature & main attribute: a rust- and acid-proof chromium-nickel-molybdenum-steel alloy, well weldable but limited to workability. It shows a higher corrosion resistance than the 300 series.

Use & application range: this alloy matches the watch (1.4435 PM), food, chemistry, pharmaceutical, paper and textile industries.

CHEMICAL COMPOSITION IN VOLUME PERCENTAGE	C	Si	Mn	P	S	Cr	Mo	Ni	N	Fe
	max. 0.03	max. 1.00	max. 2.00	max. 0.045	max. 0.030	max. 17.00 19.00	2.50 3.00	12.50 15.00	max. 0.11	balance

EXECUTION DELIVERY FORM STANDARD SIZES AVAILABILITY	<ul style="list-style-type: none">• Execution in 3 m round bars as well as in coils for Escomatic• Standard size in stock: see Product range• Other sizes on request
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TOLERANCES	<ul style="list-style-type: none">• $\varnothing < 2.00$ mm, cold drawn, polished; ISO h8• $\varnothing \geq 2.00$ mm, cold drawn, ground, polished; ISO h7 (h6); surface finish Ra 0.4 (N5)• Tighter tolerances on request
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MECHANICAL PROPERTIES	At delivery status: <ul style="list-style-type: none">• Tensile strength (R_m): 800 – 950 MPa, size depending
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HEAT TREATMENT	<ul style="list-style-type: none">• Soft annealing: 1050 °C, cooling in water• Hardening and tempering by heat treatment is impossible
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CUTTING RATES	<ul style="list-style-type: none">• $v_c \sim 25 - 35$ m/min, long-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

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