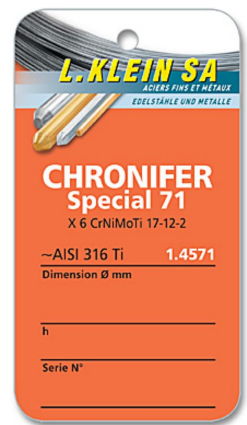


L. KLEIN SA

ACIERS FINS ET MÉTAUX

EDELSTÄHLE UND METALLE

FINE STEEL AND METALS



CHRONIFER Special 71 austenitic Stainless Steel

Material No.	DIN Abbreviation	AFNOR	AISI/SAE/ASTM	ISO	Euro Standards	Others
1.4571	X6CrNiMoTi17-12-2	X6CrNiMoTi17-12-2 (former Z 6 CNDT 17.12)	~ 316Ti V4A		X6CrNiMoTi17-12-2	~ SUS 316Ti

Distinctive feature and main attribute: a rust- and acid-proof chromium-nickel-molybdenum-steel-titanium alloy, exhibiting a limited machinability and large tool wear likewise easily weldable.

Use and application range: this alloy is designed for components of the chemical industry but also of the food and textile industry.

CHEMICAL COMPOSITION IN VOLUME PERCENTAGE	C	Si	Mn	P	S	Ni	Mo	Cr	Ti	Fe
	max. 0.08	max. 1.00	max. 2.00	max. 0.045	max. 0.025	10.50 13.50	2.00 2.50	16.50 18.50	5x%C max. 0.70	balance

EXECUTION DELIVERY FORM STANDARD SIZES AVAILABILITY	<ul style="list-style-type: none">• Execution in 3 m round bars• Standard size of \varnothing 2.00 – 16.00 mm• Other sizes on request
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TOLERANCES	<ul style="list-style-type: none">• $\varnothing > 2.00$ mm, cold drawn, ground, polished; ISO h7; surface finish Ra 0.4 (N5)• Tighter tolerances on request
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MECHANICAL & ELECTRICAL PROPERTIES	At delivery status: <ul style="list-style-type: none">• Tensile strength (R_m): 725 – 975 MPa, size depending• Electrical resistivity (R) at 20 °C: $\sim 0.75 \Omega \cdot \text{mm}^2/\text{m}$
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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	$v_c \sim$ 25 – 35 m/min , value depending on the lubrication oil, cutting tool and shape of parts. <ul style="list-style-type: none">• Cutting oil: e.g. INOX or ORTHO NFX of Motorex
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Modifications will not be adjusted automatically

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