Austenitic steel

July 2016 - rev.1.0

KLEINOX 4310

DIN X10CrNi18-8
EN 10088-2, 10151

CHEMICAL COMPOSITION %

C%	Mn%	Cr%	Ni%	Mo%	N%
0,05	Max	16,00	6,00	Max	Max
0,15	2,00	19,00	9,50	0,80	0,11

USES AND APPLICATIONS

KLEINOX 4310 Cr-Ni austenitic steel alloy whose average tensile strength can be increased considerably by cold rolling. If cold worked this alloy is applicable to welding with a good fatigue resistance. It is possible increase tensile strength from 80 up to 150 N/mm2 through tempering 400°C, 1-2h.
This steel is well indicated for the production of springs and plates.

EXECUTIONS

Thickness	0.05 – 1.5 mm
Width	1.5 – 1000 mm
Width tolerances	DIN 59381 – on request +/- 0.03 mm
Thickness tolerances	DIN 59381 R, F or P
Surface	polished Ra max 0.15 my
Edges	slit, deburred, rounded
Straightness	1 mm/m – on request 0.75 mm/m
Flatness	0.20% of the width
Tensile Strength	1000 – 2200 N/mm2

MECHANICAL PROPERTIES

Magnetism	Magnetic beyond 1300 N/mm2
Density	7.9 g/cm3
Thermal conductivity	15 W/Mc
Specific heat	0,50 J/gK
Electric resistance 20˚C	0.73 Ω mm2/m
Electric resistance 200˚C	0.85 Ω mm2/m
Magnetic permeability	50-70 gauss

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