

Austenitic steel

July 2016 - rev.1.0

KLEINOX 4598 (4404+S+Cu)

DIN X2CrNiMo17-10-2+S+Cu

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Cu %	N%	Fe%
Max	Max	Max	Max	0,10	16,50	2,00	10,00	1,30	Max	balance
0,03	1,00	2,00	0,045	0,20	18,50	2,50	13,00	1,80	0,10	

USES AND APPLICATIONS

KLEINOX 4598 (4404+S+Cu) (AISI 316L S + Cu) is a stainless steel Cr-Ni-Mo, adapted to machinability on automatic lathes, where highest corrosion resistance is demanded.

In particular, with S and Cu addition, it may obtain high machinability features.

This steel is well indicated for the production of watch parts, vehicles, pumps, engines, medical instruments, micromechanics parts and textile industry.

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	ca. 740-960 N/mm ² , depends on diameter
Heat treatment	anneal: 1050°C, water cooling
Cutting speed	45-60 m/min
Lubrificant-cooling fluid i.e.	Motorex Frisco 782 CF or 9800 CF

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.