

Austenitic steel

July 2016 - rev.1.0

KLEINOX 4570

DIN X6CrNiCu18-9-2

EN 10088-3

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Ni%	Cu %
Max	Max	Max	Max	0,15	17,00	8,00	1,00
0,12	1,00	2,00	0,060	0,35	19,00	10,00	2,50

USES AND APPLICATIONS

KLEINOX 4570 (AISI 303Cu) austenitic steel with S addition, adapted to machinability on automatic lathes.

This steel is well indicated for micromechanics

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. 720-950 N/mm ² , depends on diameter
Heat treatment	Possible anneal 1010-1120°C, water cooling
Magnetism	It is possible a part magnetization and could be reduced through anneal heat treatment
Cutting speed	50-70 m/min
Lubrificant-cooling fluid i.e.	INOX or ORTHO Motorex

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.