

Martensitic Steel

July 2016 - rev.1.0

KLEINOX 4057

DIN X17CrNi16-2

ASTM F899

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Ni%	Fe%
0,12	Max	Max	Max	Max	15,00	1,50	balance
0,20	1,00	1,00	0,04	0,03	17,00	2,50	

USES AND APPLICATIONS

KLEINOX 4057 (AISI 431) hardenable martensitic stainless steel with high Cr and low S and C contents, and is ESR remelted. These features further a good corrosion resistance. This condition will be satisfactory if the parts are previously quenched, polished and passivated.

This steel is well indicated for the production of medical, surgical and dental instruments, and for automotive, chemistry, petrochemistry, food and aerospace industries.

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

Before hardening

Tensile Strength	ca. 850 N/mm ²
Heat treatment	hardening: 950 - 1060°C
Hardness Max	47 HRc
Cutting speed	30 - 40 m/min
Lubrificant-cooling fluid i.e.	INOX or ORTHO Motorex

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.