

Martensitic Steel

July 2016 - rev.1.0

KLEINOX 4034

DIN X46Cr13

EN 10088-3

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Ni%	Fe%
0,43	Max	Max	Max	Max	12,50	Max	balance
0,50	1,00	1,00	0,04	0,03	14,50	1,00	

USES AND APPLICATIONS

KLEINOX 4034 (AISI 420) hardenable martensitic stainless steel with a low S content. In order to obtain a satisfactory corrosion resistance, the machined parts must previously be tempered, polished and passivated.

In these conditions, this grade has a similar wear resistance as its equivalent grade KLEINOX 4035 with a higher S content. It is well adapted for the production of turned parts and medical, surgical and dental instruments as well as in the agro and food 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	725 - 925 N/mm ²
Heat treatment	hardening: 1000 - 1050°C, oil cooling 60°C
Hardness Max	55 HRc
Cutting speed	25 - 40 m/min
Lubrificant-cooling fluid i.e.	INOX or ORTHO Motorex

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.