

Martensitic Steel

July 2016 - rev.1.0

# KLEINOX 4104

## DIN X14CrMoS 17

## EN 10088-3

### CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Fe%
0,10	Max	Max	Max	0,15	16,00	0,20	Max	balance
0,17	1,00	1,50	0,04	0,35	17,50	0,60	0,50	

### USES AND APPLICATIONS

**KLEINOX 4104 (AISI 430F)** hardenable martensitic stainless steel with an increased S content to enhance its machinability. In order to obtain a satisfactory corrosion resistance, the machined parts must previously be tempered, polished and passivated.

Good corrosion resistance in weak alkaline solutions.

It is well adapted for turned parts and mechanic instruments.

### EXECUTIONS

<b>Diameters</b>	1.00 - 15.00 mm
<b>Tolerances</b>	ISO h8 (up to h5)
<b>Delivery conditions</b>	in cold drawn or ground bars 3m and Coils

### MECHANICAL PROPERTIES

#### Before hardening

<b>Tensile Strength</b>	ca. 700 - 900 N/mm <sup>2</sup> , depends on diameter
<b>Heat treatment</b>	hardening: 950 - 1050°C
<b>Hardness Max</b>	40 HRc
<b>Cutting speed</b>	50 - 60 m/min
<b>Lubrificant-cooling fluid i.e.</b>	INOX or ORTHO Motorex

### OTHER INFORMATION

Diagrams, treatment tabs or other information on request.