

Martensitic Steel

July 2016 - rev.1.0

KLEINOX 4125

DIN X105CrMo17

EN 10088-3

ASTM F899

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Fe%
0,95	Max	Max	Max	Max	16,00	0,40	balance
1,20	1,00	1,00	0,04	0,03	18,00	0,75	

USES AND APPLICATIONS

KLEINOX 4125 (AISI 440C) hardenable martensitic stainless steel with high Cr content, projected to obtain stainless with highest hardness (ca 60 HRC).

It is well adapted for production of bearings, cutlery, spherical valves, needle valves, food and aerospace sector.

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

Strenght Uts	ca. 700 - 950 N/mm ² , depends on diameter
Heat treatment	hardening: 1030 - 1070°C anneal: 100 - 200, oil or water cooling
Hardness Max	60 HRC
Cutting speed	20 - 30 m/min
Lubrificant-cooling fluid i.e.	INOX or ORTHO Motorex

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.