

Martensitic Steel

July 2016 - rev.1.0

KLEINOX 4123

DIN X40CrMoVN16-2

EN 10088-3

ASTM F899

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	N%	V%	Fe%
0,37	Max	Max	Max	Max	15,00	1,50	Max	0,15	0,20	balance
0,45	0,60	0,60	0,02	0,005	16,00	1,90	0,50	0,25	0,40	

USES AND APPLICATIONS

KLEINOX 4123 (AISI 420 MOD - X15TN) N containing hardenable martensitic stainless steel with high Cr content. Its corrosion resistance is noteworthy, superior to the 4112 (X 90 CrMoV 18-AISI 440B) and 4125 (X 105 CrMo 17-AISI 440C) grades.

It is well adapted for production of surgical instruments.

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. 840 N/mm ²
Heat treatment	hardening: 1010 - 1050°C, slow air cooling
Hardness Max	max 58 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.