

Martensitic Steel

July 2016 - rev.1.0

KLEINOX 4035 (4034+S)

DIN X46CrS13

EN 10088-3

CHEMICAL COMPOSITION %

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Fe%
0,43	Max	Max	Max	0,15	12,50	Max	balance
0,50	1,00	1,25	0,04	0,35	14,00	0,60	

USES AND APPLICATIONS

KLEINOX 4035 (4034+S) (AISI 420F) hardenable martensitic stainless steel with an increased S content to enhance its machinability.

It is well adapted for the production of medical, surgical and dental 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	600 - 800 N/mm ²
Heat treatment	hardening: 1000 - 1050°C, oil cooling 60°C
Hardness Max	55 HRc
Cutting speed	ca. 50 m/min

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.