

1.4034

X46Cr13 / 4H13

MARTENSITIC STAINLESS STEEL

APPLICATION

Cutlery of all kinds, dinner knife, shears, spindles, pumps and compressor construction, piston rods, roller bearings, springs, surgical instruments, mirror polishable.

CHEMICAL COMPOSITION

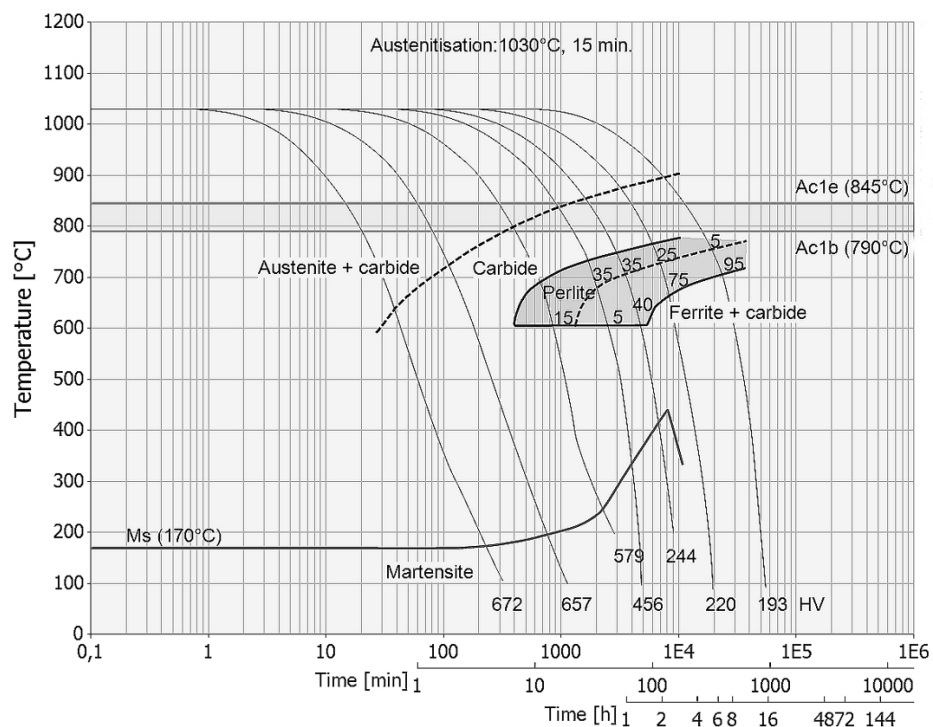
Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr
min	0.43	max.	max.	max.	max.	12.50
max.	0.50	1.00	1.00	0.04	0.015	14.50

TREATMENT

Annealing semi finished products	750 - 850 °C / furnace, air (condition:+A)
Quenching and tempering semi finished products	950 - 1050 °C / oil/air + 650 - 700 °C (condition +QT850)
Annealing plates and strips	730 - 790 °C (condition:+A)
Quenching and tempering plates and strips	1000 - 1100 °C / oil/air + 200 - 350 °C (condition:+QT)

CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM



TEMPERING DIAGRAM

