

COLD WORK TOOL STEEL

Wr.Nr.	PN	EN	GOST	AISI
1.2201	NC10	X165CrV12	-	-

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	V
min	1.55	0.25	0.20	max.	max.	11.00	0.07
max	1.75	0.40	0.40	0.035	0.035	12.00	0.12

APPLICATION

Pressurized tools, drawing, bending, sinking and extrusion tools, thread rolls, forging rolls, rings, knives, punches, gauges, forging rolls, large dies, discs for the production of bent profiles.

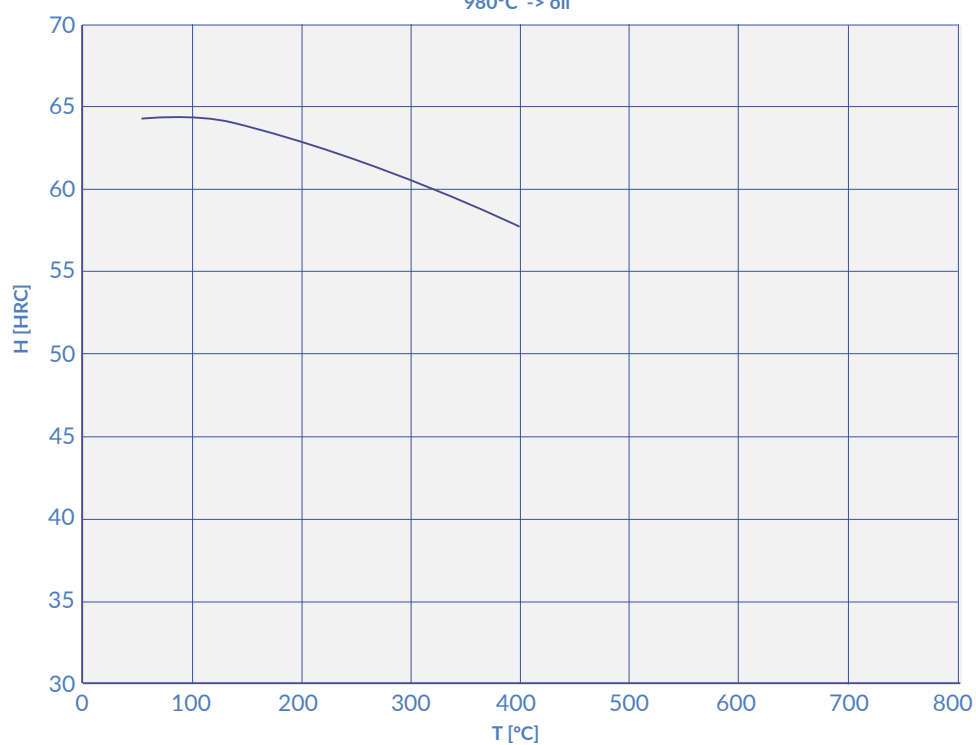
TREATMENT

Soft annealing	820 - 850°C / max. 230 HB; max. 775 N/mm ²
Hardening	960 - 1000°C / Oil, warm bath 500°C, fluidized bed, gas; about 64 HRC
Stress relieving annealing	650 - 680°C / in tempered condition below last tempering temperature
Preheating	350°C, depending on dimension

TEMPERING DIAGRAM

Material: 1.2201; X165CrV12; NC10

980°C -> oil



NOTE: All technical information is for reference only.