DIN - Material - No.	1.2436
Code	X210CrW12
Comparable standards	AISI: D6

Chemical composition (Typical analysis %)

C	Si	Mn	Cr	W
2.12	0.25	0.45	12.00	0.70

Steel properties

Ledeburitic chromium steel with high durability and cutting performance; low distortion on hardening.

Physical properties

Thermal conductivity W/(m.K)	20°C
	24.1

Density g/cm³	20°C
	7.77

Coefficient of linear thermal expansion

10^{-6} °C^{-1}	20-100	20-200	20-300	20-400	20-500	20-600	20-700	20-800
	10.8	11.8	12.4	12.5	12.8	12.9	13.0	13.9

Applications

Cutting tools for sheet metal thicknesses up to approx 2 mm, paper blades, stone compression moulds, section rolling-mill rolls, deep-drawing tools, pressing tools for ceramics and pharmaceutical industries, shear blades, plastic mould.

Stress Relieving

Holding at approx 650°C for one - two hour.

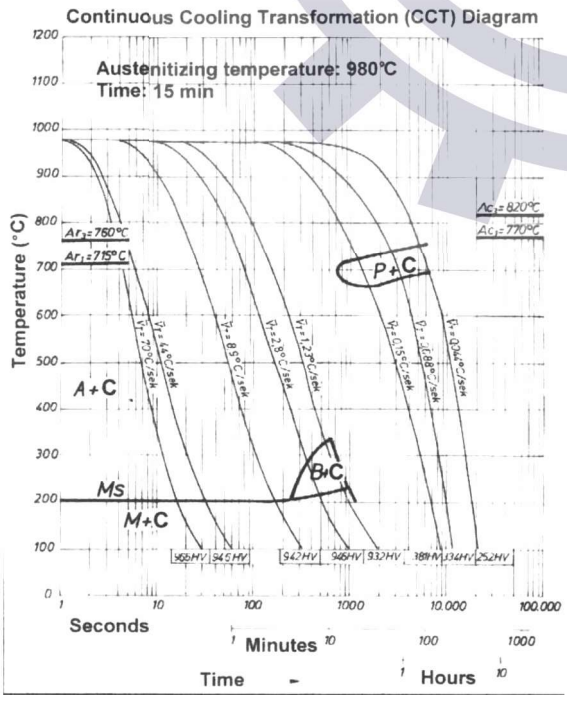
Heat treatment

Soft annealing°C	Cooling	Hardness HB
800 - 840	Cool sloly in furnace	max. 255

Hardening from°C	in	Hardness after quenching HRC
940 - 980	oil, air or warm bath	64 - 66
960 - 1000	500 - 550°C	64 - 66

Tempering °C	100	200	300	400	500	600
HRC	63	62	60	58	56	48

Time - Temperature - Transformation - Diagram



Tempering Diagram