



DIN - Material - No.	1.2316
Code	X36CrMo17
Comparable standards	EU: X38CrMo 16 1

Chemical composition	C	Cr	Mo	Ni
(Typical analysis %)	0.39	16.00	1.05	1.00 Max

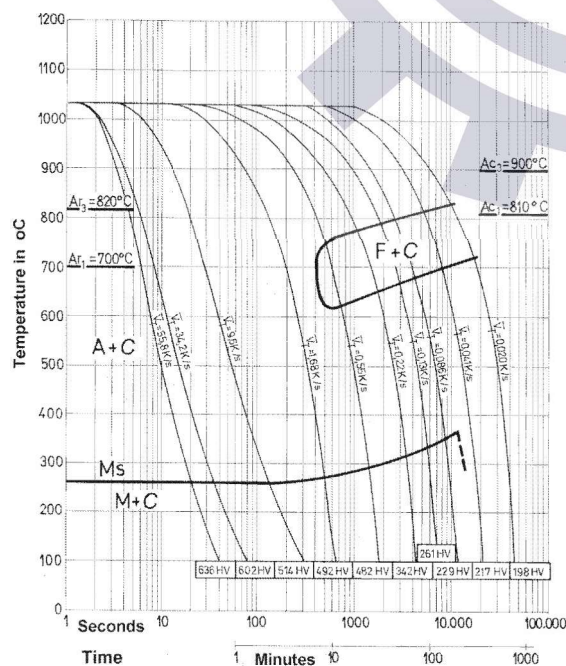
Steel properties	Stainless cold work tool steel. Good polishability.
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Physical properties	Thermal conductivity W/(m.K)	20°C 15
	Density g/cm ³	20°C 7.71
	Coefficient of linear thermal expansion	
	10 ⁻⁶ °C ⁻¹	20-100 20-200 20-300 20-400 20-500 20-600 20-700 20-800°C 10.7 11.7 11.7 11.7 11.8 11.9 12.4 12.9

Applications	Dies for pressing chemically aggressive compounds.
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Heat treatment	Soft annealing°C	Cooling	Hardness HB
	790 - 840	furnace	max. 250
	Hardening from°C	in	Hardness after quenching HRC
	1000 - 1040	oil, thermal bath 500 - 550°C	49
	Tempering	°C	100 200 300 400 500 600
	HRC		49 47 46 46 47 32

Time - Temperature - Transformation - Diagram



Tempering Diagram

