

Cold Work TOOL Steel

Product Specifications

MATERIAL					CHEMISTRY								HEAT TREATMENT DETAILS					
AISI / ASTM	DIN	EN	AFNOR	JIS	C	Si	Mn	Cr	W	Mo	V	Others	Annealing temperature	Quenchant (Hot bath)	Hardening temperature	Tempering (Air Cooling)	Annealed (HB-max)	Obtainable Hardness (HRC)
D2	1.2379	X153CrMoV12	~Z160CDV12	~SKD11	1.55	0.25	0.30	11.60	--	0.75	0.75	--	800-850 ic	Oil / Air / Salt bath	1020-1040 ic	150-200 ic	250	62-64
D3	1.2080	X210Cr12	Z200C12	~SKD1	2.00	0.25	0.35	11.60	--	--	--	--	800-850 ic	Oil / Air / Salt bath	940-970 ic	150-200ic	248	62-65
O1	1.2510	100MnCrW4	90MWCV5	~SKS3	0.95	0.25	1.10	0.55	0.55	--	0.10	--	720-760 ic	Oil / Salt bath	780-820 ic	150-200 ic	220	62-64
O2	1.2842	90MnCrV8	90MV8	--	0.90	0.25	2.00	0.35	--	--	0.10	--	680-720 ic	Oil / Salt bath	790-820 ic	150-200 ic	220	60-62
S1	1.2550	60WcrV7	~55WC20	--	0.60	0.60	0.30	1.10	2.00	--	0.18	--	710-750 ic	Oil	870-900 ic	150-200 ic	225	60-62

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Application

AISI / ASTM	DIN	Supply condition	APPLICATION
D2	1.2379	Annealed	Excellent toughness and suitable for bath nitriding. Cold extrusion tools, trimming, cutting and stamping tools for sheet thickness upto 6mm, precision cutting tools for sheet thickness up to 12.2 mm. Blanking and punching tools, wood working tools, shear blades for cutting light gauge material, thread rolling dies , drawing, deep drawing, Pressure pads and highly wear-resistant plastic moulds.
D3	1.2080	Annealed	High performance cutting tools for sheet upto 4mm Thickness, trimming dies, blanking dies for paper and plastic, shear blades for cutting light gauge material, thread rolling dies , drawing, deep drawing, Pressure pads and highly wear-resistant plastic moulds.
O1	1.2510	Annealed	Cutting tools, Blanking and stamping dies , thread cutting tools, machine knives for the wood paper and metal working industries, broaches, measuring tools, plastic moulds.
O2	1.2842	Annealed	Tool Steel for universal use , cutting tools, blanking and stamping dies , thread cutting tools, machine knives for the wood paper and metal working industries, broaches, measuring tools, plastic moulds.

S1	1.2550	Annealed	Cutting tools, Blanking and Punching tools Dies for cutting sheet metal upto 12mm Thickness, machine knives for the wood, paper and metal working industries, measuring tools, plastic moulds.
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