

## Hot Work Tool Steels

## Product Specifications

AISI/ ASTM	MATERIAL			CHEMISTRY										HEAT TREATMENT DETAILS					
	EN	DIN	JIS	C	Si	Mn	P	S	Cr	W	Mo	Ni	V	Annealing (Slow Cooling)	Quenchant (Hot Bath)	Quenching	Tempering (Air Cooling)	Annealed (HB)-max	Quenched & (Hrc) Tempered
H11	X38CrMoV5-1	1.2343		0.38	1.1	0.4	0.03	0.01	5		1.25		0.45	750-800	OIL/AIR	1000-1040	500-600	240	48
H13	X40CrMoV5-1	1.2344	SKD61	0.39	1.1	0.4	0.03	0.01	5.2		1.4		0.95	800-850	OIL/AIR	1000-1085	500-600	230	52
H12		1.2606	SKD62	0.39	1.1	0.4	0.03	0.01	5.2	1.25	1.4		0.35	800-870	OIL/AIR	1000-1050	500-600	230	52
L6	56NiCrMoV7	1.2714	SKT4	0.55	0.25	0.8	0.03	0.02	1.2		0.4	1.7	0.15	750-800	OIL	830-850	400-650	240	50
H21	X30WCrV9-3	1.2581		0.35	0.25	0.3	0.03	0.03	2.7	9			0.35	750-800	OIL/AIR	1070-1150	500-600	240	51

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## Size Range

HOT WORK	AISI	DIN	Supply condition	Rounds	Square	Flat	Application
	H11	1.2343	Annealed	4 ÷ 500		100x20 ÷ 1000x300	Dies for pressure casting of light alloys, dies for presses for hot forming steels, brass, aluminium and its alloys, hot work shear blades.
	H13	1.2344	Annealed	4 ÷ 500	20 ÷ 300	100x20 ÷ 1000x300	Dies for pressure casting of light alloys, dies for aluminium extrusion dies for hot forming of steels, extractors.
	H12	1.2606	Annealed			300x65 ÷ 500x150	Cast moulds for aluminium and zinc alloy
	L6	1.2714	Hardened & Tempered	90 ÷ 700	200 ÷ 600	300x155 ÷ 1000x600	Blocks for dies, hammers and pile drivers, rams for power hammers, hot mill rolls, very hard, cold work dies and punches.
	H21	1.2581	Annealed	30 ÷ 200			Extrusion moulds and cast moulds for copper, aluminium and zinc alloy