

Hot Work Tool Steels

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)
H11	1.2343	X38CrMoV5-1	Z38CDV5	SKD6	0.38	1.10	0.40	5.00	-	1.30	0.40	-	750-800 • c	Oil / Air	1000-1040 • c	500-550 • c	205	50 - 52
H13	1.2344	X40CrMoV5-1	Z40CDV5	SKD61	0.39	1.10	0.40	5.20	-	1.40	0.95	-	750-800 • c	Oil / Air	1000-1080 • c	500-550 • c	205	52 - 56
H21	1.2581	X30WCrV9-3	~Z30WCV9	~SKD5	0.29	0.25	0.30	2.70	8.50	-	0.35	-	750-800 • c	Oil / Air	1070-1150 • c	500-550 • c	240	48 - 52
L6	1.2714	56NiCrMoV7	~55NCDV7	~SKT4	0.55	0.25	0.75	1.10	-	0.40	0.10	Ni=1.7	650-700 • c	Oil	830-870 • c	400-650 • c	240	51 - 56

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Application

AISI / ASTM	DIN	Supply condition	APPLICATION
H11	1.2343	Annealed	Hot-work tool steel for Die casting tools, forming dies, die inserts, hot shear blades. Highly stressed hot work tools, pressure casting dies and metal extrusion tools for processing light metal alloys, tools for the manufacture of hollows, tools for the screws manufacture, nuts, rivets and bolts. Such as mandrels, dies and containers for metal tube and rod extrusion mainly use for glass manufacturing with very good thermal conductivity.
H13	1.2344	Annealed	Hot-work tool steel for Die casting tools, forming dies, die inserts, hot shear blades. Highly stressed hot work tools, pressure casting dies and metal extrusion tools for processing light metal alloys, tools for the manufacture of hollows, tools for the screws manufacture, nuts, rivets and bolts. Such as mandrels, dies and containers for metal tube and rod extrusion with very good thermal conductivity.
H21	1.2581	Annealed	Hot-work tool steel for Die casting tools, forming dies, die inserts, hot shear blades. Highly stressed hot work tools, pressure casting dies and metal extrusion tools for processing heavy metal alloys, tools for the manufacture of hollows, tools for the screws manufacture, nuts, rivets and bolts. Such as mandrels, dies and containers for metal tube and rod extrusion with very good thermal conductivity.
L6	1.2714	Hardened and tempered	Dies, including those of very large size tools for rod and tube extrusion, forming dies, bending and embossing tools, Plastic Moulds.