

Mastercraft Precision Injection Molding & Tooling

Category	Steel Grade			AISI	Delivery Condition	Chemical Composition %											
						C	Si	Mn	Ni	Cr	S	W	Mo	V	Co	Al	
Carbon Steel	JIS	S50C	Medium Carbon Steel	1050	200HB	0.50	0.30	0.60									
	EAB		Spring Steel	W1	Annealed 210HB	0.70	1.80	1.00									
	ASSAB	K100	High Carbon Steel	W1	Annealed 170HB	1.05	0.20	0.30									
Cold Work Steel	ASSAB	DF-2	Oil Hardening Steel	01	Annealed 190HB	0.90		1.20		0.50		0.50		0.10			
	ASSAB	XW-10	Chromium-molybdenum vanadium alloy steel	A2	Annealed 215HB	1.00				5.30			1.10	0.20			
	ASSAB	XW-5	Chromium Steel alloy with tungsten	D6	Annealed 240HB	2.05	0.30	0.80		12.50		1.30					
	ASSAB	XW-41	Chromium Steel alloy with molybdenum	D2	Annealed 210HB	1.55	0.30	0.30		12.00			0.80	0.80			
	ASSAB	S-7	Shock Resisting Tool Steel	S7	Annealed 200HB	0.50	0.30	0.70		3.20			1.40				
	DAIDO	440C	Martensitic Stainless Steel	420	Annealed 269HB	1.08	1.00	1.00		17.00	0.03		0.75				P < 0.04
	DAIDO	DC-53	Chromium Steel alloy	D2	Annealed 210HB	Patent Pending											
	Plastic Mould Steel		MLP-1	Modified Medium Carbon Steel	1055	Annealed 215HB	0.55	0.25	0.90	0.15	0.15	0.02					
DAIDO		PDS-5	Prehardened Mould Steel	P20	Prehardened 280-310HB 29-33 HRC	0.30	0.50	0.90	0.30	2.50			0.40	0.15			
		CSM-2	Prehardened Mould Steel	P20	Prehardened 290-330HB 31-34 HRC	0.30	0.65	0.75	0.16	1.65	0.006		0.40				
		P20M	Prehardened Mould Steel	P20	Prehardened 280-330HB 29-35 HRC	0.34		0.95		1.85	0.01		0.38				
DAIDO		NAK-55	Prehardened Mould Steel	P20	Prehardened 370HB 40HRC	0.15	0.30		3.00	0.30	0.10					Cu 1.00	1.00
DAIDO		NAK-80	Prehardened Mould Steel	P20	Prehardened 370HB 40HRC	0.12	0.35		3.30								0.95
		318	Prehardened Mould Steel	P20	Prehardened 29-34HRC	0.42	0.30	0.90	0.65	1.15			0.25				
		2311	Prehardened Mould Steel	P20	Prehardened 290-330HB 30-35HRC	0.40	0.30	1.45		2.00			0.20				
		738	Prehardened Mould Steel	P20+Ni	Prehardened 290-330HB 30-35HRC	0.39		1.47	1.00	1.90			0.20				P < 0.020
ASSAB		718	Prehardened Mould Steel	P20	Prehardened 290-330HB Hi-Hard 330-370HB	0.33	0.30	0.80	0.90	1.80	0.008		0.20				
ASSAB		618	Prehardened Mould Steel	P20	Prehardened 280-330HB	0.38	0.30	1.50		1.90	0.015		0.15				

	ASSAB	S136H	Prehardened Stainless Mould Steel	420	Prehardened ESR 290-330HB 31-35 HRC	0.38	0.80	0.50		13.60				0.30		
	ASSAB	S136	Stainless Mould Steel	420	Annealed ESR 215HB	0.38	0.80	0.50		13.60				0.30		
		2316H	Prehardened Stainless Mould Steel	420	Prehardened ESR 290-330HB 30-35 HRC	0.36			1.00	16.00			1.20			
		2316	Prehardened Stainless Mould Steel	420	Annealed ESR 235-250HB	0.36			1.00	16.00			1.20			
	ASSAB	Corrax S336H	Stainless precipitation hardening steel	420	Solution Treated 32HRC	0.03	0.30	0.30	9.20	12.00			1.40			1.60
	ASSAB	168 Ramax-S	Prehardened Stainless Mould Steel	420F	Annealed 340HB	0.33	0.35	1.35		16.70	0.12					
	ASSAB	8416	Tool Steel for Hobbing	P4	Annealed 100HB	0.05	0.10	0.20		3.90			0.50			
Hot Work Steel	DAIDO	H-1	Hot Work Steel	H13	Annealed 220HB	0.39	1.00	0.40		5.00			1.30	1.00		
	DAIDO	DH31-S	High Durability Hot Work Steel	H13 Super	Annealed 210HB	Patented										
		2344	Microdized Hot Work Steel	H13	Annealed 210HB ESR Microdized	0.40				5.30			1.40	1.00		
	ASSAB	8402	Microdized Hot Work Steel	H13	Annealed 185HB Microdized	0.38	1.00	0.40		5.30			1.30	0.90		
	ASSAB	8407	ESR Microdized Hot Work Steel	H13	Annealed 185HB ESR Microdized	0.37	1.00	0.40		5.30			1.40	1.00		
	ASSAB	QRO-90	Hot Work Steel		Annealed 185HB	0.40	0.30	0.75		2.60			2.25	0.90		
	ASSAB	HOTVAR	Hot Work Steel		Annealed 210HB	0.55	1.0	0.75		2.60			2.25	0.85		
High Speed Steel	ASSAB	HSP-41	High Speed Steel	M2	Annealed 260HB	0.88	0.30	0.30		4.20		6.40	5.00	1.90		
	ASSAB	ASP23	Powdered High Speed Steel		Annealed 260HB	1.30				4.20		6.40	5.00	3.10		
	ASSAB	ASP30	Powdered High Speed Steel		Annealed 300HB	1.30				4.20		6.40	5.00	3.10	8.50	
	ASSAB	ASP60	Powdered High Speed Steel		Annealed 340HB	2.30				4.00		6.50	7.00	6.50	10.50	
Machinery Steel	OVAKO	CROMAX	Hard Chromium Plate Steel Bar		Hardness Chrome 1000HV Steel 210HB	0.18	0.30	1.50						0.10		
	OVAKO	280	High Tensile Hollow Bar		210HB	0.18	0.35	1.50			0.03			0.80		
		C-1	Case Hardening Steel	3115	Annealed 210HB	0.15	0.35	0.50	2.30	0.40						
		N-1	Nitrodizing Steel		Annealed 240HB	0.45	0.35	0.60		1.50			0.25			1.00
		4140	High Tensile Nickel Chrome Steel	4140	Prehardened 260-310HB 26-33 HRC	0.42	0.30	0.80		1.10			0.20			
		4340	High Tensile Nickel Chrome Steel	4340	Prehardened 260-310HB 26-33 HRC	0.40	0.25	0.75	1.80	0.80			0.25			

