



## AVAILABLE STEEL MATERIALS

Steel Grade	S136		Supp	lier	ASSAB	(UDDE	HOLM)		
Steel Type	Plastic Mould	Steel	Updatin	g Price	Check				
Standard and Certificate	420, ESR	420, ESR							
State as Delivered and Hardness	Annealed to H	Annealed to HB 215(approx.)							
Typical Chemical	Compo	Component		Si	Cr	Mn	V		
Composition	Composition Percent		0.38	8.0	13.6	0.5	0.3		
Steel Properties	High purity, high polishability to mirror finish, with good corrosion resistance and low distortion during heat treatment.								
Steel Applications	High quality monorogical corrosion resist plastic moulding processing ma	tance, anti g of PVC,	corrosive	cooling o	channel, bes	st suital			
Austenitizing Temperature	1025	(	Quenchin	g Metho	d Oil / Air				
Tempering Temperature and	180°C	225°C	300	·c	570°C	61	0.C		
Hardness Cross Reference	54	53	-		-				

Steel Grade	S136H		Suppl	ier	ASSAE	3(UDDE	HOLM)		
Steel Type	Plastic Mould Steel		Updating	Price	Check	Check			
Standard and Certificate	420, ESR								
State as Delivered and Hardness	Prehardened to HB	Prehardened to HB 290 - 330							
Typical Chemical	Component		С	Si	Cr	Mn	V		
Composition	Percent		0.38	8.0	13.6	0.5	0.3		
Steel Properties		High purity, high polishability to mirror finish, with good corrosion resistance and low distortion during heat treatment.							
Steel Applications	High quality mould i corrosion resistance plastic moulding of P processing machine	, anti-c PVC, P	orrosive c	ooling o	channel, be	st suital			
Austenitizing Temperature		Q	uenching	Metho	d				
Tempering									
Temperature and Hardness Cross	180°C 2	25°C	3001	C	570°C	61	0.C		
Reference									
	Preharde	ned C	onditio	n					

Steel Grade	S50C-S55C			Supplier	ALCAN	I	
Steel Type	Plastic Mould	Steel	ι	Ipdating Price	Check		
Standard and Certificate	1050-1055				·		
State as Delivered and Hardness	Annealed to H	unnealed to HB 170-220					
Typical Chemical Composition	C:0.5;Si:0.35;I	C:0.5;Si:0.35;Mn:0.8					
Steel Properties							
Steel Applications							
Austenitizing Temperature	800-860		Qu	enching Meth	od Water		
Tempering	40010	0051	•	20010	57010	04010	
Temperature and	180°C	225*0	7	300°C	570°C	610°C	
Hardness Cross Reference	56	52	49		24		
Reference							

Steel Grade	SMV3W		Su	pplier		AUBER	T and D	UVAL	
Steel Type	Hot Working Steel	Updating Price Check							
Standard and Certificate	H11, ESR / DIN1.2343	H11, ESR / DIN1.2343 ESR							
State as Delivered and Hardness	Annealed to HB 235(ma	ax)							
Typical Chemical	Component		С	Si	Cr	Mn	Мо	V	
Composition	Percent	(	).4	1.0	5.0	0.4	1.3	0.5	
Steel Properties	The chemical composit Unsurpassed material of excellent resistance to	quality	y, hig	her puri	ty, sup	erior tou	ighness		
Steel Applications									
Austenitizing Temperature		Que	ench	ing Me	thod				
Tempering									
Temperature and Hardness Cross	180°C 225°C		300°C 5		5	570°C 610°C		0.C	
Reference									
As to the heat treatment process, refer to the product's									
	specification								

Steel Grade	S-Star		Suppl	ier	DAIDO			
Steel Type	Plastic Mould	Plastic Mould Steel Updating Price Check						
Standard and Certificate	SUS 420 J2 M	SUS 420 J2 Modified, ESR						
State as Delivered and Hardness	Prehardened to	Prehardened to HB 300 - 330						
Typical Chemical	Compo	onent	С	Si	Cr	Mn	Мо	
Composition	Percent		0.38	0.9	13.5	0.1	0.3	
Steel Properties	High mirror su	rface polisha	ability with	exceller	nt corrosion	resista	ince.	
Steel Applications	High precision	plastic mou	ılds with hiç	gh mirro	r surface fi	nishing.		
Austenitizing Temperature		a	uenching)	Metho	d			
Tempering								
Temperature and Hardness Cross	180°C 225°C		300.C		570°C	61	0.C	
Reference								
	Prehardened Condition							

Steel Grade	S-Star(A)		Suppl	ier	DAIDO	)			
Steel Type	Plastic Mould Steel	Updating Price Check							
Standard and Certificate	SUS 420 J2 Modified, E	SUS 420 J2 Modified, ESR							
State as Delivered and Hardness	Annealed to HB 217(ap	Annealed to HB 217(approx.)							
Typical Chemical	Component C Si				Cr	Mn	Мо		
Composition	Percent		0.38	0.9	13.5	0.1	0.3		
Steel Properties	High mirror surface poli	High mirror surface polishability with excellent corrosion resistance.							
Steel Applications	High precision plastic n	noul	ds with hiç	gh mirro	r surface t	finishing			
Austenitizing Temperature		Q	uenching	Metho	d				
Tempering									
Temperature and Hardness Cross	180°C 225°C	7	300*	d	570°C	61	10.C		
Reference									
As to the heat treatment process, refer to the product's									
	specif	ica	tion						

Steel Grade	V-10			Su	pplier		ASSAB	(UDDEI	HOLM)
Steel Type	Cold Working Steel Updating Price			Check					
Standard and Certificate	High Performa	High Performance Powder Metallurgical Cold Working Tool Steel							el
State as Delivered and Hardness	Annealed to H	Annealed to HB 280 - 310							
Typical Chemical	Compo		С	Si	Cr	Mn	Мо	V	
Composition	Percent		2	2.9	1.0	8.0	0.5	1.5	9.8
Steel Properties	Extremely high compressive streatment.								
Steel Applications	High speed sta	amping of	E.I.	Core	and lea	d fram	е.		
Austenitizing Temperature	1020		Que	ench	ing Me	thod	Air		
Tempering Temperature and	180°C	225°C	300°C		5	570°C		0.C	
Hardness Cross Reference	-	62		62			-		

Steel Grade	WY2311			Supplie	er	WUYA	NG	
Steel Type	Plastic Mould	Steel	_	Ipdating F	Price	Check		
Standard and Certificate	AISI P20/DIN 1	AISI P20/DIN 1.2311						
State as Delivered and Hardness	Prehardened to	Prehardened to HB 290-340						
Typical Chemical Component				С	Cr	Ni	Mn	Мо
Composition	Percent			0.37	1.9	0.3	1.1	0.4
Steel Properties	Good machina	bility.						
Steel Applications	-							
Austenitizing Temperature	-		Qu	enching N	lethod	-		
Tempering	40010	00510					1010	
Temperature and	180°C	225*0	;	300.C		570°C	6	10°C
Hardness Cross Reference	-	-		-		-		
Reference								

Steel Grade	WY718		Supplie	er	WUYA	NG		
Steel Type	Plastic Mould S	Steel	Updating Price Check					
Standard and Certificate	AISI P20+Ni, D	AISI P20+Ni, DIN 1.2738						
State as Delivered and Hardness	Prehardened to	Prehardened to HB 290-340						
Typical Chemical	Component		С	Cr	Ni	Mn	Мо	
Composition	Percent		0.37	2.0	1.0	1.1	0.4	
Steel Properties	Good machinal	oility.						
Steel Applications	High quality mo	ould base or	ordinary pla	stic mo	ulds.			
Austenitizing Temperature		Q	uenching N	Method				
Tempering								
Temperature and Hardness Cross	180°C	225°C	300°C		5 <b>70</b> °C	6	10°C	
Reference			•					
	Prehardened Condition							

Steel Grade	X13T6W (236)	Sup	plier	AUBERT :	and DUVAL			
					and DOVAL			
Steel Type	Plastic Mould Steel	Updatir	ig Price	Check				
Standard and Certificate	420 Modified, ESR (	420 Modified, ESR (Premium Grade)						
State as Delivered and Hardness	Annealed to HB 240	Annealed to HB 240(approx) or less than						
Typical Chemical	Compor	ent	С	Cr	Мо			
Composition	Perce	0.4	14.5	0.3				
Steel Properties	High purity, excellent polishability to mirror finish; the hardness can reach 52HRC after quenching and low temperture tempering. The polishability and corrosion resistance can be improved during heat treatment.							
Steel Applications	High quality mould in injection plastic mou PMMA, etc acidity p machinery.	lding of medica	al fittings a	nd PVC, PP	EP, PC,			
Austenitizing Temperature		Quenchin	g Method					
Tempering								
Temperature and Hardness Cross	180°C 22	5°C 30	0.C	570°C	610°C			
Reference								
As to the heat treatment process, refer to the product's specification								
	spec:	rication						

Steel Grade	X13T6W (236H)	Supp	olier	AUBERT a	nd DUVAL		
Steel Type	Plastic Mould Steel	Updatin	g Price	Check			
Standard and Certificate	420 Modified, ESR (Premium Grade)						
State as Delivered and Hardness	Prehardened to HB 290 - 330						
Typical Chemical	Compone	С	Cr	Мо			
Composition	Percent	0.4	14.5	0.3			
Steel Properties	High purity, excellent polishability to mirror finish, the wear resistance and corrosion resistance are better than normal AISI420.						
Steel Applications	High quality mould inse injection plastic mould PMMA etc acidity p machinery.	of medical fit	tings and	PVC, PP, EP	, PC,		
Austenitizing Temperature		Quenchin	g Method				
Tempering							
Temperature and Hardness Cross	180°C 225°	300	).C	570°C	610°C		
Reference							
	Prehardened Condition						

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