



AVAILABLE STEEL MATERIALS

Steel Grade	6061-T6_T651				Supp	lier		Al	COA			
Steel Type	alloy aluminium	lloy aluminium board Updating Price Check										
Standard and Certificate	-											
State as Delivered and Hardness	T6/T651 hot trea stress relief)	atment hot re	olling a	and a	ging t	treatm	ent f	to HB	95(T6	51 have	made	
Typical Chemical Composition	Porcont	SI Fe 0.40-0.7 0.8		Mn 0.15		Cr 0.04- 0.35	$\overline{}$	Zn 0.25	Ti 0.15	Other 0.15	Ai allowance	
Steel Properties	-											
Steel Applications	Injection mou and vacuum forr electric industry machine's par parts; 8. Automa	ming moulds 4.machinin ts 7.macher	; 2. H g part nical h	andm s; 5.u and a	ade i Iltraso and oi	moulds onic we il press	; 3. eldir sure	jags a ng par pneu	ind su ts 6.si matic	pportin ilk print	g plate of ing	
Austenitizing Temperature	-	Quenching Method -										
Tempering Temperature and	180°C	225*0	;		300	С		570).C		610°C	
Hardness Cross Reference	-	-			-							

Steel Grade	6061-T6511	Supplier ALCOA								
Steel Type	Non-Ferrous N	ous Metal Updating Price Check								
Standard and Certificate	-									
State as Delivered and Hardness	Age Hardening	ge Hardening to HB 95								
Typical Chemical Composition	Chemical anal	Chemical analysis can be referred to relevant information.								
Steel Properties	Aluminium allo characteristics		corrosion resisting.	ance, excelle	nt joining					
Steel Applications	Thermoforming parts.	and blow m	oulding, ultraso	nic welding an	d machine					
Austenitizing Temperature	-	Q	uenching Meth	od -						
Tempering Temperature and	180°C	180°C 225°C 300°C 570°C 610°C								
Hardness Cross Reference	-	-	-	-						

Steel Grade	718H	718H Supplier ASSAB(UDDEHOL										
Steel Type	Plastic Mould Steel Updating Price Check											
Standard and Certificate	P20 Modified	P20 Modified										
State as Delivered and Hardness	Prehardened to	Prehardened to HB 330 - 380										
Typical Chemical	Compon	Component C Si Cr Ni Mn Mo										
Composition	Percer	Percent 0.38 0.3 2.0 1.0 1.4 0.2										
Steel Properties	Prehardened ty 1.0% Ni.	pe, high	purity with	isotrop	oic mic	rostructi	ure cont	ains				
Steel Applications	High quality mo POM, PS, PE,			uitable f	for plas	tic mou	lding of	PA,				
Austenitizing Temperature			Quenchi	ng Met	thod							
Tempering												
Temperature and Hardness Cross	180°C 225°C 300°C 570°C 610°C											
Reference												
	Preha	rdened	Condit	ion								

Steel Grade	8418	8418 Supplier ASSAB										
Steel Type	Hot Work Tool Steel Updating Price Check											
Standard and Certificate	NULL	NULL										
State as Delivered and Hardness	Annealed to H	unnealed to HB 160										
Typical Chemical	Compon	ent	С	Si	Cr	Mn	Мо	V				
Composition	Percer	nt	0.35	0.20	5.0	0.75	2.3	0.80				
Steel Properties	Excellent toug temperature st											
Steel Applications	Suitable for me aluminium and plastics.							ooling of				
Austenitizing Temperature	1020		Quen	ching Me	ethod	Air						
Tempering Temperature and	180°C	180°C 225°C 300°C 570°C 610°C										
Hardness Cross Reference						52		46				

Steel Grade	ADC3 Supplier AUBERT and DUVA										
Steel Type	Hot Working Steel Updating Price Check										
Standard and Certificate	H11 Modified(HP Refine	H11 Modified(HP Refined)									
State as Delivered and Hardness	Annealed to HB 235(ap	nnealed to HB 235(approx)									
Typical Chemical	Component	Component C Cr Mo V									
Composition	Percent	Percent 0.35 5.0 1.3 0.4									
Steel Properties	The chemical composit Unsurpassed material of resistance to crack pro conductivity, deep hard	quality, s pagation	superior toug and heat ch	hness, e necks, hi	xcellent gher therr	mal					
Steel Applications	Effective for medium to magnesium and zinc al		gh quality ho	t-work di	es for alu	minium,					
Austenitizing Temperature		Quen	ching Metho	bo							
Tempering											
Temperature and Hardness Cross	180°C 225°C 300°C 570°C 610°C										
Reference											
As to the h	neat treatment pro			the pr	oduct's	3					
	specification										

Steel Grade	CALMAX 635	CALMAX 635 Supplier ASSAB(UDDEH									
Steel Type	Cold Working Steel Updating Price Check										
Standard and Certificate	High Wear Re	High Wear Resistance Multifunctional Tool Steel									
State as Delivered and Hardness	Annealed to H	Annealed to HB 200(approx.)									
Typical Chemical	Compo	nent	С	Si	Cr	Mn	Мо	V			
Composition	Perce	ent	0.6	0.35	4.5	8.0	0.5	0.2			
Steel Properties	Extremely high hardenability a HRC58-60, wit	and weldab	ility, g	jood flame :	and ind	uction h		bility to			
Steel Applications	Resisting adhe							d and			
Austenitizing Temperature	960		Quer	iching Met	hod	4ir					
Tempering	180°C	180°C 225°C 300°C 570°C 610°C									
Temperature and Hardness Cross Reference	60	58		55	31	-	011				

Steel Grade	CERTAL 7022	CERTAL 7022-T651 Supplier ALCAN								
Steel Type	Non-Ferrous N	Non-Ferrous Metal Updating Price Check								
Standard and Certificate	High Hardness	ligh Hardness Aluminium Alloy								
State as Delivered and Hardness	Prehardened to	o HB 145	- 17	0						
Typical Chemical Composition	Chemical anal	ysis can	be re	ferred to releva	nt informa	tion.				
Steel Properties	High strength,	high hard	Ines	s, good machir	ability.					
Steel Applications	Plastic injection machine parts		ng, b	low moulding,	ultrasonic	welding and				
Austenitizing Temperature	-		Qu	enching Meth	od -					
Tempering	40010	40010 00010 00010 04010								
Temperature and	180 C	180°C 225°C 300°C 570°C 610°C								
Hardness Cross Reference	-	-		-	-					

Steel Grade	CORRAX S336 Supplier ASSAB(UDDEHOLM										
Steel Type	Plastic Mould Steel Updating Price Check										
Standard and Certificate	Special Precipita	Special Precipitation Hardening Stainless Steel									
State as Delivered and Hardness	Solution treated	to 32HF	RC								
Typical Chemical	Compone	Component C Si Cr Ni Mn Mo									
Composition	Percent	Percent 0.03 0.3 12.0 9.2 0.3 1.4									
Steel Properties	Can be hardened good weldability stability during a	, high po						tance,			
Steel Applications	Injection moulds industry and pla						nd food				
Austenitizing Temperature			Quench	ing Me	thod						
Tempering											
Temperature and Hardness Cross	180°C	180°C 225°C 300°C 570°C 610°C									
Reference											

Flexible hardness, 32-50HRC, achieved by an ageing treatment in the temperature range 425-600°C.

Steel Grade	DC11			Sup	plier	DA	IDO		
Steel Type	Cold Working	Steel	U	Updating Price			ieck		
Standard and Certificate	SKD11								
State as Delivered and Hardness	Annealed to H	B 255(a _l	oprox.)					
Typical Chemical	Compon	ent	С	Si	Cr	Ni	Mn	Мо	V
Composition	Percer	nt	1.6	0.4	13.0	0.5	0.6	1.2	0.5
Steel Properties	Excellent wear	resista	nce wi	th high	chromiu	ım cold	work t	tool ste	el.
Steel Applications	Suitable for co dies for stainle								ing
Austenitizing Temperature	1025		Que	enchin	g Metho	od Air	/Ou		
Tempering									
Temperature and	180°C	180°C 225°C 300°C 570°C 610°C							
Hardness Cross Reference	62	60		5	8	-			
Reference									

Steel Grade	DC53		Supplier	DAIDO							
Steel Type	Cold Working Ste	eel l	Jpdating Price	Check							
Standard and Certificate	JIS SKD11 Modifi	IIS SKD11 Modified									
State as Delivered and Hardness	Annealed to HB 2	Annealed to HB 255(approx.)									
Typical Chemical Composition	Patent Pending	atent Pending									
Steel Properties	hardened to 60HF	High chromium cold working tool steel with high toughness, can be nardened to 60HRC by quenching and high temperture tempering, be avorable to do WEDM, reduce the cracking possibility.									
Steel Applications	Best suitable for austerite stainles surface coating s	s steel, alu	minium alloy, c	opper alloy,	suitable for						
Austenitizing Temperature		Qu	enching Metho	od							
Tempering											
Temperature and Hardness Cross	180°C	180°C 225°C 300°C 570°C 610°C									
Reference											
As to the	As to the heat treatment process,refer to the product's specification										

Steel Grade	DH31-SUPER			Supplier		DAIDO				
Steel Type	Hot Working S	Steel Updating Price Check								
Standard and Certificate	SKD61, Modifi	SKD61, Modified								
State as Delivered and Hardness	Annealed to H	nnealed to HB 190(approx.)								
Typical Chemical Composition	Patent Pendin	Patent Pending								
Steel Properties	Good through propagation ar						to crack			
Steel Applications	Suitable for die of die casting						loy, the parts			
Austenitizing Temperature	1030		Que	enching Meth	od	Air				
Tempering Temperature and	180°C	180°C 225°C 300°C 570°C 610°C								
Hardness Cross Reference	-	-		-		-				

Steel Grade	DHA 1	DHA 1 Supplier DAIDO							
Steel Type	Hot Mould Steel	Hot Mould Steel Updating Price Check							
Standard and Certificate	AISI H13/JIS SKD61								
State as Delivered and Hardness	Annealed to HB 220								
Typical Chemical	Component	С	Si	Cr	Mn	Мо	٧		
Composition	Percent	0.37	0.9	5.0	13.5	1.3	1.0		
Steel Properties									
Steel Applications									
Austenitizing Temperature		Quench	ning Me	thod					
Tempering									
Temperature and Hardness Cross	180°C 225°C 300°C 570°C 610°C								
Reference									

Steel Grade	GOA			Supplier			AIDO		
Steel Type	Cold Working Steel		U	Updating Price			Check		
Standard and Certificate	SKS3 Modified								
State as Delivered and Hardness	Annealed to HB 217(approx.)								
Typical Chemical Composition	Component		С	Si	Cr	Ni	Mn	Мо	W
	Percent		0.86	0.3	0.5	0.25	1.2	0.13	0.5
Steel Properties	High hardenability and wear resistance cold working tool steel.								
Steel Applications	Punches for cold forming and blanking, shearing blades for metal sheet.								
Austenitizing Temperature	830 Quenching Method Oil								
Tempering Temperature and Hardness Cross Reference									
	180°C	180°C 225		.C 300.		°C 570		70°C 610°C	
	62	6	0	58		-			
Reference									

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