

			Equivalent Grade													
			International	China	Germany		USA				EU	UK	Japan			
			ISO	GB	DIN	DIN EN#	AA (Aluminum Association)	AISI (American Iron and Steel Institute)	ASTM	UNS (Unified Numbering System)	EN	BS	JIS			
	** Please click on each material for chemical composition comparison on each equivalent grade	** Please click on each material for the data sheet	Material Name (Generic)	Supplier's provided material name	Star's Standardized Material Names											
Aluminum 铝合金	2014-T6	2014-T6	AL2014-T6	AlCu4SiMg	-	AlCuSiMn	3.1255	2014			A92014	AW-2014	-	-		
	2024-T3	2024-T3	AL2024-T3	AlCu4Mg1	-	AlCuMg2	3.1355	2024			A92024	AW-2024	-	-		
	2024-T351	2024-T351	AL2024-T351	AlCu4Mg1	-	AlCuMg2	3.1355	2024			A92024	AW-2024	-	-		
	5052-H112	5052-H112	AL5052-H112	AlMg2.5	-	AlMg2.5	3.3523	5052			A95052	AW-5052	-	-		
	5052-H32	5052-H32	AL5052-H32	AlMg2.5	-	AlMg2.5	3.3523	5052			A95052	AW-5052	-	-		
	5083-H112	5083-H112	AL5083-H112	AlMg4.5Mn0.7	-	AlMg4.5Mn0.7	3.3547	5083			A95083	AW-5083	-	-		
	6061-T6	6061-T6	AL6061-T6	AlMg1SiCu	-	AlMg1SiCu	3.3211	6061			A96061	AW-6061	-	-		
	6061-T651	6061-T651	AL6061-T651	AlMg1SiCu	-	AlMg1SiCu	3.3211	6061			A96061	AW-6061	-	-		
	6082-T6	6082-T6	AL6082-T6	AlSi1MgMn	-	AlMgSi1	3.2315	6082			A96082	AW-6082	-	-		
	7075-T6	7075-T6	AL7075-T6	AlZn5.5MgCu	-	AlZnMgCu1.5	3.4365	7075			A97075	AW-7075	-	-		
7075-T651	7075-T651	AL7075-T651	AlZn5.5MgCu	-	AlZnMgCu1.5	3.4365	7075			A97075	AW-7075	-	-			
Stainless Steel 不锈钢	303	303	SS-303	X10CrNiS 18-9	S30317	X8CrNiS18-9	1.4305			303	S30300	X8CrNiS18-9	303 S 21	SUS303		
	304	304	SS-304	X5CrNi18-10	S30408	X5CrNi18-9	1.4301			304	S30400	X5CrNi18-10	304 S 15	SUS304		
	316	316	SS-316	X5CrNiMo17-12-2	S31608	X5CrNiMo17-12-2	1.4401			316	S31600	X5CrNiMo17-12-2	316 S 29	SUS316		
	316L	316L	SS-316L	X2CrNiMo17-12-2	S31603	X2CrNiMo17-12-2	1.4404			316L	S31603	X2CrNiMo17-12-2	316 S 11	SUS316L		
	416	416	SS-416	X12CrS13	S41617	X12CrS13	1.4005			416	S41600	X12CrS13	416 S 21	SUS416		
	420	420	SS-420	X20Cr13	S42020 / 2Cr13	X20Cr13	1.4021			420	S42000	X20Cr13	420 S 29	SUS420J1		
	440C	440C	SS-440C	X105CrMo17	S44096	X105CrMo17	1.4125			440C	S44004	X105CrMo17	-	SUS440C		
	17-4 PH	17-4PH	17-4PH	X5CrNiCuNb16-4	S51740	X5CrNiCuNb16-4	1.4542			630	S17400	X5CrNiCuNb16-4	-	SUS630		
Carbon Steel 碳钢	1008	1008	Carbon Steel-1008	-	08F	St14	1.0330			1008	G10080	DC01	-	SPHD		
	1015	1015	Carbon Steel-1015	-	15	C15	1.0401			1015	G10150	-	-	S15C		
	1020	1020	Carbon Steel-1020	-	20	C22	1.0402			1020	G10200	-	-	S20C		
	1045 / 45	45 <small>(Supplied in Round Bar only)</small>	Carbon Steel-45	-	45	Ck45	1.1191			1045	G10450	C45	-	S45C		
	1050 / 50	50 <small>(Supplied in Plate only)</small>	Carbon Steel-50	-	50	Cf53	1.1213			1050	G10500	C53	-	S53C		
	Q235	Q235	Carbon Steel-Q235	-	Q235	-	1.0038				A36	-	-	-	SS400	
Alloy Steel 结构钢	4130	4130	Alloy Steel-4130	25CrMo4	30CrMo	25CrMo4	1.7218			4130	G41300	-	708A25	SCM430		
	4140	4140	Alloy Steel-4140	42CrMo4	42CrMo	42CrMo4	1.7225			4140	G41400	42CrMo4	708M40	SCM440		
	4340	4340	Alloy Steel-4340	-	40CrNiMoA	34CrNiMo6	1.6582			4340	G43400	34CrNiMo6	817M40	SNCM447		
	5140	5140	Alloy Steel-5140	-	40Cr	41Cr4	1.7035			5140	G51400	-	530M40	SCr440		

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Steel 钢	Tool Steel 模具钢		A2	A2	Tool Steel-A2	X100CrMoV5	Cr5Mo1V	-	1.2363		A2	T30102	-	BA2	SKD12	
		D2	D2	Tool Steel-D2	160CrMoV12	Cr12Mo1V1	-	1.2379		D2	T30402	-	BD2	SKD11		
		H13	H13	Tool Steel-H13	X40CrMoV5-1	4Cr5MoSiV1	-	1.2344		H13	T20813	-	-	SKD61		
		M2	M2	Tool Steel-M2	-	W6Mo5Cr4V2	-	1.3343		M2	T11302	-	-	SKH51		
		O1	O1	Tool Steel-O1	95MnWCr5	9CrWMn	-	1.2510		O1	T31501	-	-	SKS3		
		P20	P20	Tool Steel-P20	-	3CrM2Mo	-	1.2311		P20	T51620	-	-	-		
		NAK80	NAK80	Tool Steel-NAK80	-	10Ni3MnCuAl	-	1.2764		P21	T51621	-	-	NAK80		
		S7	S7	Tool Steel-S7	-	5Cr3Mn1SiMo1V	-	1.2355		S7	T41907	-	-	-		
		S136	S136	Tool Steel-S136	-	-	-	1.2083		420	-	-	-	-		
		718H	718H	Tool Steel-718H	-	SW718H	-	1.2738		P20 + Ni	-	-	-	-		
	Bearing Steel 轴承钢		52100	52100	Bearing Steel-52100	100Cr6	GCr15	-	1.3505		52100	G52986	-	-	SUJ2	
	Spring Steel 弹簧钢		1566	1566	Spring Steel-1566	-	65Mn	-	-		1566	-	-	-	-	
		9260	9260	Spring Steel-9260	-	60Si2Mn	-	-		9260	-	-	-	SUP6		
	Invar 高镍钢		4J36	4J36	Invar-4J36	-	4J36	-	1.3912		Invar36	K93600	-	-	-	
Copper 铜	Copper 红铜		T2	T2	Copper-T2	-	T2	-	-			C11000	-	C102	C1100	
	Beryllium Copper 铍铜		C17200	C17200	Beryllium Copper-C17200	-	-	CuBe2	2.1247			C17200	CW101C	-	-	
	Tungsten Copper 钨铜		W70	W70	Tungsten Copper-W70											
	Brass 黄铜		H62	H62 <i>(Supplied in Round Bar only)</i>	Brass-H62	-	H62	-	-				-	-	-	-
			H65	H65 <i>(Supplied in Plate only)</i>	Brass-H65	-	H65	CuZn36	-				C26800	CW506L	CZ107	-
	Zinc 锌合金		Zamak 3	Zamak 3	Zinc-Zamak 3	-	-	-	-			-	-	-	-	
	Titanium 钛合金		Ti6Al4V	Ti6Al4V	Titanium-Ti6AL4V	-	TC4	Ti6Al4V	3.7164			-	-	TA28	-	
	Magnesium 镁合金		AZ31B	AZ31B	Magnesium-AZ31B	-	-	MgAl3Zn	-			AZ31B	M11311	-	-	
		AZ91D	AZ91D	Magnesium-AZ91D	-	-	-	-				AZ91D	M11916	-	-	

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