



Alloy Type	Standard Specification					Datas													
	DIN (W-Nr.)	AISI	ASTM ACI	BS3100 BS3146	JIS	C	Si	Mn	P	S	Cr	Ni	Mo	Others	$\sigma_b$ Mpa	$\sigma_s$ Mpa	$\delta$ %	Hardness HBS	Heat Treatment
Carbon Steel & Low Alloy steel	L0416 GS-38	1020	415-205	CLAIA	SC410	0.15-0.25	0.2-0.6	0.4-1.0	0.04	0.04					415	205			Anneal
	L0446 GS-45	1025	WCB	CLAIB	SC450	0.2-0.3	0.2-0.6	0.4-1.0	0.04	0.04					485	250	22		Anneal
	GS-34CrMo4	4135			SCM435	0.3-0.37	0.3-0.5	0.5-0.8	0.035	0.035	0.8-1.2		0.2-0.3		880-1080	665	12	269-332	Hardening+Temper
	GS-42CrMo4	4143		CLA3	SCM440	0.38-0.43	0.15-0.35	0.75-1.0	0.035	0.04	0.8-1.1		0.15-0.25		980-11180	765	11	285-352	Hardening+Temper
Tool Steel		8620		805A20	SNCM220	0.18-0.23	0.15-0.35	0.7-0.9	0.035	0.04	0.4-0.6	0.4-0.7	0.15-0.25		830		17	248-341	Hardening+Temper
	100MnCrW4		01	BO1	SKS3	0.9-1.0	1	0.9-1.2	0.04	0.04	0.5-1.0			W0.5-1				HRB<96	Anneal
	4CrMoSiV1		H13	BH13	SKD61	0.32-0.42	0.8-1.2	0.75	0.04	0.04	4.5-5.5		1.0-1.5	V0.8-1.2				HRC>53	
High Mn Steel	W6Mo5Cr4V2		M2	BM2	SKH9	0.8-0.9	<1.0	0.75	0.04	0.04	3.8-4.5	W5.5-6.7	4.5-5.5	V1.6-2.2				HRC>62	Hardening-Temper
	G-X120Mn13		B-3	BW-10		1.1-1.3	1	12-14	0.07	0.04					637		20	<229	Hardening-Temper
Stainless Steel			B-1		SCMnH2	0.9-1.2	0.8	11-14	0.07	0.04					735		35	<229	Quenching
	L4305	303		303S21	SUS303	0.15	1.0	2.0	0.2	>1.5	17-19	8-10	0.6						Quenching
	L4308	304	CF-8	ANC3A	SCS13	0.08	2.0	1.5		0.04	18-21	8-11	0.5		440	185	30	183	Solution annealing
	L4306	304L	CF-8	304C12	SCS19A	0.03	2.0	1.5		0.04	17-21	8-12	0.5		480	205	33	183	Solution annealing
	L4408	316	CF-8M	ANC4B	SCS14A	0.08	1.5	1.5		0.04	18-21	9-12	2-3		485	205	30	183	Solution annealing
	L4404	316L	CF-3M	316C12	SCS16A	0.03	1.5	1.5		0.04	17-21	9-13	2-3		485	205	30	183	Solution annealing
	G-X10Cr13	410	CA-15	410C21	SCS1	0.15	1.5	1.0		0.04	11.5-14	(1.0)	0.5		620	450	18	183	Hardening+Temper
	L4507	431		ANC2	SUS431	0.2	0.2-1	0.2-1		0.035	15.5-20	1.5-3			850-1000		8	248-302	Hardening+Temper
	L4581	318	CF8C	ABC4C	SCS21	0.08	2.0	1.5		0.04	18-21	9-12		Nb 8xC-1.55	485	205	28	183	Solution annealing
	L4460	17-4	CB7Cu-1		SCS24	0.07	1.0	1.0		0.04	15.5-17.5	3.5-5		Nb0.15-0.45 Cu2.5-4	980	885	9	311	ProceitaionH1025
L4462					$\leq 0.05$	$\leq 1.00$	$\leq 2.00$	$\leq 0.035$	$\leq 0.015$	25.0-28.0	4.50-6.50	1.30-2.00	N0.05-0.20	620-880			$\leq 260$	Solution annealing	
Heat-Resisting Steel						$\leq 0.03$	$\leq 1.00$	$\leq 2.00$	$\leq 0.035$	$\leq 0.015$	21.0-23.0	4.50-6.50	1.30-2.00	N0.10-0.22	650-880			$\leq 270$	Solution annealing
	GX40CrNiSi2512		HH		SCH13	0.2-0.5	2.0	2.0	0.04	0.04	24-28	11-14	0.5		515	240	10		Not heat traeted
			HU	309C35		0.35-0.75	2.0	2.5	0.04	0.04	17-21	37-41	0.5		450		4		Not heat traeted
	GX15CrNiSi2520		HK30	331C40	SCH21	0.2-0.6	2.0	2.0	0.04	0.04	24-28	18-22	0.5		450	240	10		Not heat traeted
	GX40CrNiSi2520		HK40		SCH22	0.35-0.45	1.75	1.5	0.04	0.04	19-22	23-27	0.5	N<0.2	235	440	8		Not heat traeted
GX40CrNiSi3525		HP		SCH24	0.35-0.75	2.0	2.5	0.04	0.04	24-28	33-37	0.5		430	235	4.5		Not heat traeted	

Alloy Type	Standard	Chemical Composition											$\sigma_b$ Mpa	$\sigma_s$ Mpa	$\delta$ %	Hardness HBS	Heat Treatment			
		C	Si	Mn	S	P	Cr	Ni	Mo	W	Co	Fe						Others		
Nickel Bases Alloys	ASTM																			
	MORE2	0.15	0.5	0.5-10	0.03	0.03	34.5	47	0.5	15										Not heat traeted
	Hastelloy X	0.2	1	10	0.04	0.03	20.5-23	Balance	8-10	0.2-1.0	0.5-2.5	17-20			434-483	283-310	10-15	85-96HRB	Not heat traeted	
Cobalt Based Alloys	NW-22	0.05-0.15	0.25-0.75	0.3-1.0	0.03	0.015	20-24	Balance	1-3	13-15	<5	<3	Al 0.2-0.5							Not heat traeted
	UMCo50	0.08	0.75	0.65			28				50	20.5					55-60			Not heat traeted
Cobalt Based Alloys	Cobalt J	2.2-2.7	1.0	1.0	0.03	0.03	31-34	2.5		16-19	Balance	3	0.25B							Not heat traeted
	Cobalt 21	0.2-0.3	1.0	1.0	0.04	0.04	25-29	1.75-3.75	5-6		Balance	3	0.007B	688-895	448-655	8-20	24-32		Not heat traeted	

The above lists details of the main alloy cast, and whilst many other material are also regularly cast. It is not practical to include them all in this brochure. Hower, we will be pleased to discuss any other material with you . As the list is only into as a guide, for full information, the relevant standard specifications should be referred to . The comparable specifications have been compiled on the basis of chemical analysis and it is important for other factories to be taken into account.

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