

Werkstoffliste der Klaus Kuhn Edelstahlgiesserei GmbH

Materiallist of the Klaus Kuhn Edelstahlgiesserei GmbH

Stand:17/11/2016

1 Austenitisches Gußeisen / austenitic cast iron	3
2 Kaltzäher Stahl / steel for low-temperature service	3
2.1 Martensitische Stähle / martensitic steels	3
3 Warmfeste ferritische Stähle / high-temperature ferritic steel	3
4 Verschleißbeständige Stähle/ wear resistant steels	4
4.1 Manganhartstahl/ Hadfield manganese steels	4
4.2 Werkzeugstähle / tool steels	
4.2.1 Kaltarbeitsstähle / cold working steels	4
4.2.2 Warmarbeitsstähle / hot working steels	4
4.2.3 Schnellarbeitsstähle / high speed steels	4
4.3 Chromhartguß / chromium white cast iron	5
4.4 Ferritisch-karbidischer Hartguß / ferritic-carbidic cast iron	5
4.5 austenitisch-karbidischer Hartguß / austenitic-carbidic cast iron	5
5. Korrosionsbeständige Stähle / corrosion resistant steels	
5.1 Ferritische und martensitische Stähle / ferritic and martensitic steels	
5.1.1 Standardlegierungen / standard alloys	6
5.1.2 Weichmartensite / soft martensitic steels	6
5.1.3 Weichmartensite: aushärtbar / soft martensitic steels: precipitation hardenable	6
5.2 Duplex-Stähle / ferritic-austenitic duplex stainless steels	
5.2.1 Standard-Duplex-Stähle / standard duplex stainless steels	
5.2.2 Super-Duplex-Stähle / super duplex stainless steels	7
5.2.3 HC-Duplex-Stahl / high carbon duplex stainless steels	7
5.3 Austenitische Stähle / austenitic stainless steels	
5.3.1 Austenitische Stähle ohne Mo / austenitic steels without Mo	
5.3.2 Austenitische Stähle mit 2-3 Gew.-% Mo / austenitic steels with 2-3 wt.-% Mo	8
5.3.3 Austenitische Stähle mit 3-4 Gew.-% Mo / austenitic steels with 3-4 wt.-% Mo	8
5.3.4 Austenitische Stähle mit 4-6 Gew.-% Mo / austenitic steels with 4-6 wt.-% Mo	9
5.3.5 hochlegierte vollaustenitische Sonderlegierungen / high alloyed fully austenitic special alloys	9

6 Stähle mit besonderen physikalischen Eigenschaften	9
6 steels with special physical properties	
6.1 Nichtmagnetisierbare Stähle / non magnetic steels	9
7 Hitzebeständige Stähle / heat resistant steels	
7.1 Ferritische Stähle / ferritic steels	10
7.2 Duplex-Stähle / ferritic-austenitic steels	10
7.3 Austenitische Stähle / austenitic steels	11
8 Nickel-Basislegierungen / Nickel base alloys	11
9 Cobalt-Basislegierungen / cobalt base alloys	
9.1 Verschleissbeständige Legierungen / wear resistant alloys	11
10 Anwendungsspezifische Werkstoffe / alloys for special applications	
10.1 Ventilsitzwerkstoffe / alloys for valve seat rings	12

Dieses Exemplar unterliegt dem ständigen Änderungsdienst der Klaus Kuhn Edelstahlgiesserei GmbH

1 Austenitisches Gußeisen / austenitic cast iron

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
5.1500	EN-GJLA-XNiCuCr15-6-2	DIN EN 13835	2,50	1,5	15,5			Cu: 6,0	F 41000	Ni - Resist Typ 1	A 436		
0.6661	GGL-NiCr20-3		2,50	3,0	19,0				F 41003	Ni - Resist Typ 2B	A 436		
									F 41006	Ni - Resist Typ 5	A 436		
5.3500	EN-GJSA-XNiCr20-2	DIN EN 13835	2,30	2,0	19,0			Si: 2,5	F 43000	Ni - Resist Typ-D2	A 439		
0.7661	GGG-NiCr20-3		2,60	3,0	20,0			Si: 2,5	F 43001	Ni - Resist Typ-D2B	A 439		
5.3504	EN-GJSA-XNi35	DIN EN 13835	2,40		36,0			Si: 2,5	F 43006	Ni - Resist Typ-D5	A 439		
			2,40	2,5	35,0			Si: 2,5	F 43007	Ni - Resist Typ-D5B	A 439		
5.3501	EN-GJSA-XNiMn23-4	DIN EN 13835	2,30		23,0			Si: 2,0 ; Mn 4,0	F 43010	Ni - Resist Typ-D2M	A 571		

2 Kaltzäher Stahl / steel for low-temperature service

2.1 Martensitische Stähle / martensitic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.6982	GX3CrNi13-4	DIN EN 10213	0,04	13,0	4,0				J 91540	CA-6NM	A 352, A 356 A 487, A 743		

3 Warmfeste ferritische Stähle / high-temperature ferritic steel

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4931 [1.4922]	GX22CrMoV12-1 [X20CrMoV12-1]	DIN EN 10213	0,22	12,0	1,0	1,0							
1.4932	GX15CrMoNbV12-1	Kuhn-Standard	0,15	11,0	0,8	0,8		V: 0,2 ; Nb: 0,3					
1.4955 [1.4903]	GX12CrMoVNbN9-1 [X10CrMoVNb9-1]	DIN EN 10213	0,10	9,0		1,0		V: 0,2 , Nb: 0,1	J84090 [K91560]	C12A P91	A 217		

4 Verschleißbeständige Stähle/ wear resistant steels

4.1 Manganhartstahl/ Hadfield manganese steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.3802 [1.3401]	GX130Mn12 [X120Mn12]	DIN EN 10349	1,20					Mn: 12,5	J 91139	Grade: B-3	A 128		

4.2 Werkzeugstähle / tool steels

4.2.1 Kaltarbeitsstähle / cold working steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
K3505 [1.3505]	G100Cr6	Kuhn-Standard	1,00	1,5									
K2080 [1.2080]	GX210Cr12	Kuhn-Standard	2,10	11,5									
1.2382 [1.2379]	GX155CrVMo12-1 [X155CrVMo12-1]	Stahlschlüssel	1,60	11,5		0,7		V: 1,0	[T 30402]	[D2]			
1.2602 [1.2601]	GX165CrMoV12 [X165CrMoV12]	Stahlschlüssel	1,70	11,5		0,5		V: 0,5 ; W: 0,5					

4.2.2 Warmarbeitsstähle / hot working steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.2346 [1.2343]	GX38CrMoV5-1 [X38CrMoV5-1]	Stahlschlüssel	0,40	5,0		1,3		V: 0,35					
1.2393	GX42CrMoV6-1-1	Kuhn-Standard	0,40	6,0		1,0		V: 1,0					

4.2.3 Schnellarbeitsstähle / high speed steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
K6259	S 9-2-5-4	Kuhn-Standard	2,30	6,0		2,0		W: 9,0 ; Nb: 2,0 Co: 3,8 ; V: 5,2					
K652	S 6-5-2	Kuhn-Standard	0,90	4,0		5,0		V: 2,0 ; W 6,0					

4.3 Chromhartguß / chromium white cast iron

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4088	GX170Cr18	Stahlschlüssel	1,60	17,5									
1.4195	GX170CrMo25-2	Kuhn-Standard	1,70	25,0		2,0							
1.4191	GX210CrMo28-2	Stahlschlüssel	2,10	28,0		2,3			F 45009	Class III Type A	A 532		
1.4192	GX250CrMoV25	Kuhn-Standard	2,50	25,0		1,0		V: 0,5					
5.5609	EN-GJN-HB555(XCr18) GX260CrMoNi20-2-1 [K 202]		2,80	20,0	1,0	1,8			F 45007	Class II Type D	A 532		
5.5608	EN-GJN-HB555(XCr14) GX300CrMo16-3 [K 152]	DIN EN 12513	3,20	15,5		2,7			F 45005	Class II Type B	A 532		
K153	GX360CrMo16-3	Kuhn-Standard	3,60	15,5		2,7							

4.4 Ferritisch-karbidischer Hartguß / ferritic-carbide cast iron

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4085	GX70Cr29	SEW 410	0,70	27,5									
1.4086	GX120Cr29	SEW 410	1,15	27,5									
1.4136	GX70CrMo29-2	Stahlschlüssel	0,75	28,5		2,2							
1.4138	GX120CrMo29-2	SEW 410	1,20	27,5		2,2							
GL 20	GX120CrMo33-2	Kuhn-Standard	1,20	33,0		2,2							
GL 21	GX220CrMo33-2	Kuhn-Standard	2,20	33,0		2,2							

4.5 Austenitisch-karbidischer Hartguß / austenitic-carbide cast iron

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4091	GX120CrNiMoW35-15-3	Kuhn-Standard	1,20	35,0	15	3,0							

5. Korrosionsbeständige Stähle / corrosion resistant steels

5.1 Ferritische und martensitische Stähle / ferritic and martensitic steels

5.1.1 Standardlegierungen / standard alloys

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4095	GX8Cr10	Kuhn-Standard	0,08	10,0									
1.4008	GX7CrNiMo12-1	DIN EN 10283	0,10	13,0	1,2	0,5							
1.4011 [1.4006]	GX12Cr12 [X12Cr13]	DIN EN 10283	0,10	13,0					J 91150 [S 41000]	CA-15 [AISI 410]	A 217, A 426, A 743	SCS 1X	G 5121
1.4107	GX8CrNi12	DIN EN 10213	0,10	12,0	1,0				J 91151	CA-15 M [~ AISI 414]	A 487, A 743	SCS 3X	G 5121
1.4120 [1.4120]	GX20CrMo13 [X20Cr13]	Stahlschlüssel	0,20	13,0		1,0							
1.4036 [1.4034]	GX46Cr13 [X46Cr13]	Stahlschlüssel	0,50	13,0									
1.4027 [1.4021]	GX20Cr14 [X20Cr13]	SEW 410	0,20	13,5					J 91153 [S 42000]	CA-40 [AISI 420]	A 743	SCS 2	G 5121
1.4059 [1.4057]	GX22CrNi17 [X17CrNi16-2]	SEW 410	0,22	16,5	1,2								
K4122 [1.4122]	GX39CrMo17-1 [X39CrMo17-1]	Kuhn-Standard	0,40	16,0	0,15	1,1							
K4125 [1.4125]	GX105CrMo17 [X105CrMo17]	Kuhn-Standard	1,10	17,0		0,5			J 91639 [S 44004]	[AISI 440C]			
K4112 [1.4112]	GX90CrMoV18 [X90CrMoV18]	Kuhn-Standard	0,95	18,0	0,15	1,1							
K030 [1.4108]	GX40CrMoN16-1 [X30CrMoN15-1]	Kuhn-Standard	0,40	16,0		1,0	0,20						

5.1.2 Weichmartensite / soft martensitic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4317 [1.4313]	GX4CrNi13-4 [X3CrNiMo13-4]	DIN EN 10283 DIN EN 10213	0,05	12,5	4,5	0,5			J 91540 [S 41500]	CA-6NM [F 6NM]	A 352, A 356 A 487, A 743	SCS 6X	G 5121
1.4393	GX4CrNiN13-4	Kuhn-Standard	0,05	12,5	4,5	0,5	0,15						
1.4405 [1.4418]	GX4CrNiMo16-5-1 [X4CrNiMo16-5-1]	DIN EN 10283 DIN EN 10213	0,05	15,5	5,5	1,0						SCS 31	G 5121
K509	GX5CrNiMo16-5-2	Kuhn-Standard	0,05	16,0	5,5	2,25							

5.1.3 Weichmartensite: aushärtbar / soft martensitic steels: precipitation hardenable

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
[1.4542]	[X5CrNiCuNb16-4]		0,05	16,0	4,0			Cu: 3,0 ; Nb: 0,3	J 92180 [S 17400]	CB7CU-1 [Type 630]	A 747	SCS 24	G 5121
1.4525	GX5CrNiCu16-4	DIN EN 10213	0,05	16,0	4,0			Cu: 3,5					

5.2 Duplex-Stähle / ferritic-austenitic duplex stainless steels

5.2.1 Standard-Duplex-Stähle / standard duplex stainless steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4093*	GX3CrNiCuN22-2 <i>* Patentierte Stahlsorte</i>	Kuhn-Standard	0,03	22,0	2,0		0,20	Cu: 1,0					
1.4392 [1.4362]	GX3CrNiN23-4	Kuhn-Standard	0,03	23,0	4,0		0,20						
1.4347	GX6CrNiN26-7	DIN EN 10283	0,08	26,5	6,5		0,15						
J 93371 [1.4460]	CD-6MN ¹ [X3CrNiMoN27-5-2]		0,03	27,0	5,0	2	0,15		J 93371	CD-6MN	A 890, A 995		
1.4463	GX6CrNiMo24-8-2	Stahlschlüssel	0,07	24,0	8,0	2,2	0,15		[S 31200]				
1.4468	GX2CrNiMoN26-6-3	DIN EN 10283	0,03	25,0	6,5	2,7	0,25						
1.4470 [1.4462]	GX2CrNiMoN22-5-3 [X2CrNiMoN22-5-3]	DIN EN 10283 DIN EN 10213	0,03	22,0	5,5	3,2	0,15		J 92205 J 93183 [S 31803] [S 32205]	CD-3MN (4A)	A 781, A 890 A 872		
1.4517	GX2CrNiMoCuN25-6-3-3	DIN EN 10283 DIN EN 10213	0,03	25,0	6,0	2,5	0,20	Cu: 3,0	J 93372	CD-4MCuN	A 890, A 995	SCS 32	G 5121
K4582 [1.4582]	GX4CrNiMoNb25-7	Kuhn-Standard	0,03	25,0	7,0	1,5	0,15	Nb: 10 x C					

5.2.2 Super-Duplex-Stähle / super duplex stainless steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4469 [1.4410]	GX2CrNiMoN26-7-4 [X2CrNiMoN25-7-4]	DIN EN 10283 DIN EN 10213	0,03	25,0	7,0	4,5	0,20		J 93404 [S 32750]	CE-3MN, 5A	A 890, A 995		
1.4471 [1.4501]	GX2CrNiMoWCuN27-6-3 [X2CrNiMoCuWN25-7-4]	SEW 410	0,03	27,0	6,0	3,0	0,25	Cu: 1,0 ; W: 1,0	J 93380 [S 32760]	CD-3MNCuN, 6A F 55	A 351, A 890 , A 995		
1.4517.09	GX3CrNiMoCuN25-6-3-3 PRE > 40	Kuhn-Standard	0,03	25,0	6,0	3,5	0,25	Cu: 1,5	J 93373	CD3MCuN, 1C	A 890		

5.2.3 HC-Duplex-Stahl / high carbon duplex stainless steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4339	GX32CrNi28-10	Stahlschlüssel	0,30	27,0	9,0								
1.4340	GX40CrNi27-4	SEW 410	0,37	27,5	4,5				~ J 92615	~ CC-50	A 743		
1.4464	GX40CrNiMo27-5	SEW 410	0,35	27,0	5,0	2,2							

5.3 Austenitische Stähle / austenitic stainless steels

5.3.1 Austenitische Stähle ohne Mo / austenitic steels without Mo

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4312 [1.4310]	GX10CrNi18-8 [X10CrNi18-10]	Stahlschlüssel	0,12	18,5	8,5				J 92590 [S 30200]	CF-10 [AISI 302]	A 351	SCS 12	G 5121
K4305	GX8CrNiS18-9	Kuhn-Standard	0,10	17	8			S: 0,2		AISI 303			
1.4308 [1.4301]	GX5CrNi19-10 [X5CrNi18-10]	DIN EN 10283 DIN EN 10213	0,07	18,5	10,0				J 92600 [S 30400]	CF-8 CPF8 [AISI 304]	A 351, A 743, A 744 A 451	SCS 13 SCS 13A SCS 13X	G 5121
1.4309 [1.4306]	GX2CrNi19-11 [X2CrNi19-11]	DIN EN 10283 DIN EN 10213	0,03	18,0	10,0		0,1		J 92500 J 92700 [S 30403]	CF-3 CPF3 [AISI 304L]	A 351, A 743, A 744 A 451	SCS 19A	G 5121
1.4552 [1.4541] [1.4550]	GX5CrNiNb19-11 [X6CrNiTi18-10] [X6CrNiNb18-10]	DIN EN 10283 DIN EN 10213	0,06	19,0	10,0				J 92710 [S 32100] [S 34700]	CF-8C ; CPF8C [ASI 321] [AISI 347]	A 351, A 743, A 744 A 451	SCS 21X	G 5121
			0,08	24,0	13,0				J 93401	CH10	A 351		

5.3.2 Austenitische Stähle mit 2-3 Gew.-% Mo / austenitic steels with 2-3 wt.-% Mo

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4437 [1.4436]	GX6CrNiMo18-12 [X3CrNiMo17-13-3]	Stahlschlüssel	0,07	17,0	12,0	2,5							
1.4408 [1.4401]	GX5CrNiMo19-11-2 [X5CrNiMo17-12-2]	DIN EN 10283 DIN EN 10213	0,07	19,0	11,0	2,2			J 92900 [S 31600]	CF8M CPF8M [AISI 316]	A 351, A 743, A 744 A 451	SCS 14 SCS 14 A SCS 14 X	G 5121
1.3960 [1.4435] [1.4429]	GX2CrNiMoN18-14-3 [X2CrNiMo18-14-3] [X2CrNiMo17-13-3]	SEW 395	0,03	18,00	14,0	2,7	0,20						
1.4409 [1.4404]	GX2CrNiMoN19-11-2 [X2CrNiMo17-12-2]	DIN EN 10283	0,03	18,0	11,0	2,2	0,05		J 92800 [S 31653]	CF3M CPF3M [AISI 316L]	A 351, A 743, A 744 A 451	SCS 16AXN	G 5121
1.4581 [1.4571] [1.4580]	GX5CrNiMoNb19-11-2 [X6CrNiMoTi17-12-2] [X6CrNiMoNb17-12-2]	DIN EN 10283 DIN EN 10213	0,06	19,0	11,0	2,2		Nb: 8xC	J 92971 [S 31640]	CPF10MC [AISI 316CB]	A 451	SCS14XNb	G 5121
1.4409 [1.4406]	GX2CrNiMoN19-11-2 [X2CrNiMo17-11-2]	DIN EN 10283	0,03	18,0	11,0	2,2	0,15		J 92800 [S 31653]	CF3MN [AISI 316LN]		SCS 16AXN	G 5121
K410	GX10CrNiMo18-10-2	Kuhn-Standard	0,12	19,0	10,0	2,2			J 92901	CF10M Seite 14	A 351		

5.3.3 Austenitische Stähle mit 3-4 Gew.-% Mo / austenitic steels with 3-4 wt.-% Mo

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4412	GX5CrNiMo19-11-3	DIN EN 10283	0,06	19,0	11,5	3,2			J 93000 [S 31700]	CG8M [AISI 317]	A 351, A 743, A 744	SCS 34	G 5121
[1.4438]	[X2CrNiMo18-15-4]		0,03	19,0	12,0	3,2			J 92999 [S 31703]	CG-3M [AISI 317L]	A 351, A 743, A 744	SCS 35	G 5121

5.3.4 Austenitische Stähle mit 4-6 Gew.-% Mo / austenitic steels with 4-6 wt.-% Mo

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4448 [1.4449]	GX6CrNiMo17-13-5 [X5CrNiMo17-13-5]	Stahlschlüssel	0,06	17,0	13,0	4,2			[S 31725]	[AISI 317LM]			
1.4446 [1.4439]	GX2CrNiMoN17-13-4 [X2CrNiMoN17-13-5]	DIN EN 10283	0,04	17,0	13,0	4,2	0,15		[S 31726]	[AISI 317LNM]			

5.3.5 hochlegierte voll-austenitische Sonderlegierungen / high alloyed fully austenitic special alloys

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4569	GX2CrNiMnMoNnb21-15-4-3	SEW 410	0,03	20,5	15,5	3,2	0,30	Mn: 4,5 ; Nb: 0,1		~ CG-6MMN	A 351, A 743		
1.4585	GX7CrNiMoCuNb18-18	Stahlschlüssel	0,08	17,5	19,5	2,0		Cu: 2,0 ; Nb: 8xC					
1.4584 1.4538 [1.4539]	GX2NiCrMoCuN25-20-5 GX1NiCrMoCu25-20-5 [X1NiCrMoCu25-20-5]	DIN EN 10283	0,02	19,5	25,0	4,2	0,10	Cu: 1,5	~J 94652 [N 08904]	~ CN-3M	A 743		
1.4588 [1.4529]	GX2NiCrMoCuN25-20-7 [X1NiCrMoCuN25-20-6]	DIN EN 10283	0,02	20,0	25,0	6,0	0,15	Cu: 1,0	[N 08925/26]				
1.4559	GX7NiCrMoCuNb41-20	Stahlschlüssel	0,05	19,5	41,0	4,5		Cu: 2,0 ; Nb: 8 x C					
1.4557 [1.4547]	GX2CrNiMoCuN20-18-6 [X1CrNiMoCuN20-18-7]	DIN EN 10283	0,02	20,0	18,0	6,0	0,25	Cu: 1,0	J 93254 [S 31254]	CK-3MCuN	A 351, A 743 A 744, A 990		
K221	GX15CrMnMoN22-16	Kuhn-Standard	0,20	22,0		1,0	0,70	Mn: 16,0					
	GX5CrNiMnMoN22-12-5-2		0,06	22,0	12,0	2,0	0,30	Mn: 5 ; Nb: 0,2 V: 0,2	J 93790 [S 20910]	CG6MMN	A 351, A 743		
	GX5CrNiMnSiN18-8-9-4		0,05	18,0	8,5		0,15	Mn: 9,0; Si 4,0	J 92972 [S 21800]	CF10SMnN	A 351, A 743		

6 Stähle mit besonderen physikalischen Eigenschaften

6 steels with special physical properties

6.1 Nichtmagnetisierbare Stähle / non magnetic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.3940	GX2CrNiN18-13	SEW 395	0,03	17,0	12,0		0,20						
1.3960 [1.3952]	GX2CrNiMoN18-14-3 [X2NiCrMoN18-14-3]	SEW 395	0,03	18,0	14,0	2,7	0,20						
1.3967 [1.3964] [~1.3976]	GX2CrNiMnMoNnb21-16-5-3 [X2CrNiMnMoNnb21-16-5-3] [X2CrNiMnMoNnb23-17-6-3]	SEW 395	0,03	21,0	16	3,2	0,25	Mn: 5,0 ; Nb: 0,2					

7 Hitzebeständige Stähle / heat resistant steels

7.1 Ferritische Stähle / ferritic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4740.01	GX40CrSi17	Kuhn-Standard	0,25	17,0				Si: 2,0					
1.4743	GX160CrSi18	DIN EN 10295	1,60	18,0				Si: 2,0					

7.2 Duplex-Stähle / ferritic-austenitic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4822	GX40CrNi24-5	Stahlschlüssel	0,40	24,0	5,0			Si: 1,5					
1.4823	GX40CrNiSi27-4	DIN EN 10295	0,40	27,0	5,0			Si: 2,0	J 93005 J 93015	HD HD 50	A 297 A 608	SCH 11X	G 5122

7.3 Austenitische Stähle / austenitic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4825	GX25CrNiSi18-9	DIN EN 10295	0,25	18,0	9,0			Si: 2,0	J 92603	HF	A 297	SCH 31	G 5122
1.4826	GX40CrNiSi22-10	DIN EN 10295	0,40	22,0	10,0			Si: 2,0	J 92603 J 92803	HF HF 30	A 297 A 608	SCH 12X	G 5122
	GX40CrNiSi28-10		0,40	28,0	10,0			Si: 1,5	J93403		A 297		
K4828 [1.4828]	GX15CrNiSi20-12 [X15CrNiSi20-12]	Kuhn-Standard	0,20	20,0	11,0			Si: 2,0	[S30900]	[AISI 309]			
1.4832	GX25CrNiSi20-14	DIN EN 10295	0,30	20,0	14,0			Si: 2,0					
1.4837	GX40CrNiSi25-12	DIN EN 10295	0,40	25,0	12,5			Si: 2,0	J 93503 J 93633 J 93513	HH HH-33 HH-30	A 297 A 608 A 608	SCH 13X	G 5122
1.4840 [1.4841]	GX15CrNi25-20 [X15CrNiSi25-20]	Stahlschlüssel	0,15	25,0	19,0			Si: 1,0	J 94202 [S 31400]	CK-20 CPK20	A 351, A743 A 451		
[1.4845]	[X12CrNi25-21]		0,15	25,0	19,0			Si: 0,5	[S 31008]	CK 20; CPK20 [AISI 310S]			
1.4848	GX40CrNiSi25-20	DIN EN 10295	0,40	25,0	20,0			Si: 2,0	J 94224 J 94204	HK HK-40	A 297 A 351		
1.4859	GX10NiCrNb32-20	DIN EN 10295 DIN EN 10213	0,10	20,0	32,0			Si: 1,0 ; Nb: 1,0	N 08151	CT15C	A 351	SCH 34	G 5122
1.4852	GX40NiCrSiNb35-26	DIN EN 10295	0,40	25,0	34,0			Si: 2,0 ; Nb: 1,5	N 08705+Nb	HP+Nb			
1.4857	GX40NiCrSi35-25	DIN EN 10295	0,40	25,0	35,0			Si: 2,0	N 08705	HP	A 297		
1.4865	GX40NiCrSi38-19	DIN EN 10295	0,40	18,0	38,0			Si: 2,0				SCH 20X	G 5122

7.3 Austenitische Stähle / austenitic steels

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
1.4869	GX50NiCrCoW35-25-15-5	DIN EN 10295	0,50	25,0	35,0			Co: 15 ; W: 5				SCH 46	G 5122
1.4895	GX10NiCrCoW45-35	Kuhn-Standard	0,5	35,0	45,0			Si: 2,0					
1.4849	GX40NiCrSiNb38-19	DIN EN 10295	0,40	18,0	36,0			Si: 2,0 ; Nb: 1,5	N 08008 N 08050 N 08605	HT50C HT50 HT	A 608 A 297	SCH 24XNb	G 5122
K4893 [1.4893]	GX8CrNiSi21-11 [X8CrNiSi21-11]	Kuhn-Standard	0,08	21,0	11,0			Si: 2,0 ; Ce: 0,05	[S 30815]	[253 MA]			
K832	GX40CrNiSiS20-12	Kuhn-Standard	0,40	20,0	12,0			Si: 2,0 ; S: 0,3					
K851.02	GX10NiCrNb35-25	Kuhn-Standard	0,10	25,0	35,0			Si: 1,0 ; Nb: 1,0					

8 Nickel-Basislegierungen / Nickel base alloys

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
	G-Ni95		0,10		> 95				N 02100 [N 02200]	CZ-100	A 494		
M-35-1 [2.4360]	G-NiCu30Fe NiCu30Fe		0,20		63			Cu: 30	N 24135 [N 04400]	M-35-1	A 494		
~2.4686 [2.4610]	G-NiMo17Cr NiMo16Cr16Ti	Stahlschlüssel	0,02		> 58	16,0		Nb: 0,15	N 26455 [N 06455]	CW-2M	A 494		
N 26022 [2.4602]	G-NiCr21Mo14W NiCr21Mo14W		0,02	21,0	60	13,0		W: 3,0	N 26022 [N 06022]	CX2MW	A 494		
N 26625 [2.4856]	G-NiCr22Mo9Nb NiCr22Mo9Nb		0,10	22,0	> 58	8,0		Nb: 4,0	N 26625 [N 06625]	CW-6MC alloy 625	A 494		
2.4879	G-NiCr28W	DIN EN 10295	0,40	28,0	48			Si: 2,0 ; W: 4,5					
2.4813	G-NiCr50Nb	Stahlschlüssel	0,10	49,0	>46,0			Nb: 1,5	R 20501	50Cr-50Ni-Cb	A 560		

9 Cobalt-Basislegierungen / cobalt base alloys

9.1 Verschleissbeständige Legierungen / wear resistant alloys

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
K992	G-CoCr30W8	Kuhn-Standard	1,30	30,0				Co: 55 ; W 8	R 30012				
K996	G-CoCr27W5	Kuhn-Standard	1,30	27,0				Co: 63 ; W 5	R 30006				

10 Anwendungsspezifische Werkstoffe / alloys for special applications

10.1 Ventilsitzwerkstoffe / alloys for valve seat rings

Europe			chem. Composition						United States of America			Japan	
EU-no.	designation	standard	C	Cr	Ni	Mo	N	other	UNS	designation	ASTM-Standard	designation	JIS-standard
GL 41		Kuhn-Standard	3,40	0,5	1,0	1,0		Si: 1,8 ; P: 0,5					
GL 20	GX120CrMo33-2	Kuhn-Standard	1,20	33,0		2,2							
GL 21	GX220CrMo33-2	Kuhn-Standard	2,20	33,0		2,2							
GL 51	GX220NiCrMoVW40-12-6	Kuhn-Standard	2,20	12,0	40,0	6,0		V ; W					
K132	GX200CrMo13-2	Kuhn-Standard	2,00	13,0		2,5				II-A	A 532		
K6040	G-NiCr60	Kuhn-Standard	0,10	60,0	40,0				R 20600	60Cr-40 Ni	A 560		
1.2599	GX190CrMo12-2	Kuhn-Standard	1,90	12,0		2,2							