

International Comparison of Standards Stainless and Heat Resisting Steels

Federal Republic of Germany		U.S.A.	France	Great Britain	Russia	Japan	Sweden	Spain	Italy
W.-Nr.	DIN	AISI / SAE	AFNOR	B.S.	GOST	JIS	SS	UNE	UNI
1.4000	X 6Cr13	403	Z 8 C 12	430 S 17	08 Ch 13	SUS403 SUS410	2301	F.3110 - X 6 Cr 13	X 6 Cr 13
1.4001	X7Cr14	410 S 429	Z 8 C 13 FF			S SUS429		F.8401 - AM - X 12 Cr 13	
1.4002	X6CrAl13	405	Z8 CA 12	405 S 17	-	SUS 405	-	F.3111 - X 6 CrAl 13	X CrAl 13
1.4005	X12CrS13	416	Z 11 CF 13	416 S 21	-	SUS 416	2380	F.3411 - X 12 CrS 13	X 12 CrS 13
1.4006	X 12Cr13 X 10Cr13 GX12Cr13	410 CA-15	Z 10 C 13	410 S 21 410 C 21 ANC 1A	12Ch13 15Ch13L	SUS 410	2302	F.3401 - X 10 Cr 13	X 12 Cr 13 X 10 Cr 13
1.4008	GX8CrNi13	-	Z 12 CN 13 M	410 C 21	-	SCS 1	-	-	GX 12 Cr 13
1.4016	X6Cr17	430	Z 8 C 17	430 S 17 430 S 18	12Ch17	SUS 430	2320	F.3113 - X 6 Cr 17	X 8 Cr 17
1.4021	X20Cr13	420	Z 20 C 13	420 S 37	20Ch13	SUS 420 J 1	2303	F.3402 - X 20 Cr 13	X 20 Cr 13
1.4024	X15Cr13	-	Z 13 C 13	420 S 29	-	SUS 410 J 1	-	F.3415 - X 15 Cr 13	-
1.4027	GX20Cr14	-	Z 20 C 13 M	ANC 1 B;C 420 C 24 420 C 29	20Ch13L	SCS 2	-	-	-
1.4028	X30Cr13	420 F	Z 30 C 13 Z 33 C 13	420 S 45	30Ch13	SUS 420 J 2	2304	F.3403 - X 30 Cr 13	(G) X 30 Cr 13
1.4031	X38Cr 13 (X39Cr13)	-	Z 40 C 14	-	40Ch13	SUS 420 J 2	(2304)	F.3404 - X 40 Cr 13	X 40 Cr 14
1.4034	X46Cr13	-	Z 44 C 14 Z 38 C 13 M	(420 S 45)	40Ch13	-	-	F.3405 - X 45 Cr 13	X 40 Cr 14
1.4057	X20CrNi 17 2 (X 19CrNi 17-2)	431	Z 15 CN 16-02	431 S 29;6 S.80	20Ch17N2	SUS 431	2321	F.3427 - X 19 CrNi 17 2	X 16 CrNi 16
1.4104	X12CrMoS 17 (X 14CrMoS17)	430 F	Z 13 CF 17	-	-	SUS 430 F	2383	F.3117 - X 10 CrS 17 F.3413 - X 14 CrMoS 17	X 10 CrS 17
1.4113	X6CrMo17-1	434	-	434 S 17	-	SUS 434	-	F.3116 - X 6 CrMo 17 1	X 8 CrMo 17
1.4125	X105CrMo17	440 C	Z 100 CD 17	-	(95 Ch18)	SUS 440 C	-	-	-
1.4301	X 5CrNi 18 10 (X4CrNi 18-10)	304 304H	Z 4 CN 19-10 FF Z 5 CN 17-08 Z 6 CN 18-09 Z 7 CN 18-09	304 S 11; 304 S 15 304 S 16 304 S 17; LW 21 LWCF 21 304 S 31	08 Ch 18N10	SUS 304	2332 2333	F.3504 - x 5 CrNi 18 10	X 5 CrNi 18 10
1.4303	X 5CrNi 18 12 (X 4CrNi 18-12)	305 308	Z 5 CN 18-11 FF	305 S 17 305 S 19	06 Ch 18N11	SUS 305 J1 SUS 305	-	F.3513 - X 8 CrNi 18-12	X 7 CrNi 18 10 X 8 CrNi 19 10
1.4305	X10CrNiS 18 9 (X8CrNiS 18-9)	303	Z 8 CNF 10-09	303 S 22 303 S 31	-	SUS 303	2346	F.3508 - X 10 CrNiS 18-09	X 10 CrNiS 18 09
1.4306	X 2CrNi19-11 GX2CrNi18-9	304 L	Z 1 CN 18-12 Z 2 CN 18-10; Z 3 CN 19.10 M Z 3 CN 18-10; Z 3 CN 19-11 Z 3 CN 19-11 FF	304 S 11; LW 20 LWCF 20 S 536 T .74 304 C 12 (LT 196) 305 S 11	03 Ch 18N11	SCS 19 SUS 304 L	2352	F.3503 - X 2 CrNi 18 10	X 3 CrNi 18 11 X 2 CrNi 18 11 GX 2 CrNi 19 10
1.4308	GX5CrNi19-10 / G-X 6 CrNi 18 9	CF-8	Z 6 CN 18.10 M	304 C 15 (LT 196)	07 Ch 18N9L	SCS 13	2333	-	-
1.4310	X 12CrNi 17 7 (X9CrNi 18-8)	301	Z 11 CN 17-08 Z 11 CN 18-08 Z 12 CN 18-09	301 S 21 301 S 22	-	SUS 301	2331	F.3517 - X 12 CrNi 17 7	X 12 CrNi 17 07
1.4311	X2CrNiN 18-10	304 LN	Z 3 CN 18-07 Az Z 3 CN 18-10 Az	304 S 61	-	SUS 304 LN	2371	F.3541 - X 2 CrNiN 18 10	X 2 CrNiN 18 11
1.4312	GX 10CrNi 18-8	-	Z 10 CN 18.9 M	302 C 25 ANC 3 A	10 Ch 18N9L	SCS 12 SCS 13A	-	-	-
1.4313	X 4CrNi 13 4 (X 3CrNiMo13-4) GX5CrNi 13-4	CA 6-NM	Z 4 CND 13.4 M; Z 6 CN 13-4 Z 8 CD 17-01	425 C 11 425 C 12	-	SCS 5 SCS 6	2384	-	GX 6 CrNi 13 04
1.4319	X 3 CrNiN 17-8	302	-	301 S 26; 302 S 26	-	SUS 302	-	F.3507 - X 10 CrNi 18-09	X 10 CrNi 18 09
1.4401	X 5 CrNiMo 17 12 2 (X 4 CrNiMo 17-12-2)	316	Z 3 CND 17-11-01 Z 6 CND 17-11 Z 6 CND 17-11-02 FF Z 7 CND 17-11-02 Z 7 CND 17-12-02	316 S 13 316 S 17 316 S 19 316 S 31 316 S 33	-	SUS 316	2347	F.3534 - X 5 CrNiMo 17 12 2	X 5 CrNiMo 17 12

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1.4404	X 2CrNiMo 17 13 2 (X2CrNiMo 17-12-2) GX2CrNiMoN 1810	316 L	Z 2 CND 17-12 Z 2 CND 18-13 Z 3 CND 17-11-02 Z 3 CND 17-11-02 FF Z 3 CND 18-12-02 Z 3 CND 18-12-03 Z 3 CND 19.10 M	316 S 11 316 S 13 316 S 14 316 S 31;316 S 42 S. 537;316 C12 T .75 S.161	-	SUS 316 L	2348	F.3533 - X 2 CrNiMo 17 13 2 F.3537 - X 2 CrNiMo 17 13 3	X 2 CrNiMo 17 12 G-X 2 CrNiMo 19 11
1.4406	X2CrNiMoN 17 12 2 (X2CrNiMoN17-11-2)	316 LN	Z 3 CND 17-11 AZ	316 S 61 316 S 63	-	SUS 316 LN	-	F.3542 - X 2 CrNiMoN 17 12 2	X 2 CrNiMoN 17 12
1.4408	GX 5CrNiMo19-11 G-X 6 CrNiMo 18 10	CF-8M	-	316 C 16 (LT 196) ANC 4 B	07 Ch 18N10G2S2M2L	SCS 14	(2343)	F.8414 - AM - X 7 CrNiMoN 17 12 2	'-
1.4429	X2CrNiMoN 17-13-3	316 LN	Z 3 CND 17-12 Az	316 S 63	-	(SUS 316 LN)	2375	F.3543 - X 2 CrNiMoN 17 13 3	X 2 CrNiMoN 17 13
1.4435	X2CrNiMo 18-14-3	316 L	Z 3 CND 17-12-03 Z 3 CND 18-14-03	316 S 11; 316 S 13 316 S 14; 316 S 31 LW 22 LWCF 22	03 Ch 17N14M3	SUS 316 L	2353	F.3533 - X 2 CrNiMo 17 13 2	X 2 CrNiMo 17 13
1.4436	X 5CrNiMo 17 13 3 (X4CrNiMo 17-13-3)	316	Z 6 CND 18-12-03 Z 7 CND 18-12-03	316 S 19; 316 S 31 316 S 33 LW 23 LWCF 23	-	SUS 316	2343	F.3534 - X 5 CrNiMo 17 12 2 F.3538 - X 5 CrNiMo 17 13 3	X 5 CrNiMo 17 13 X 8 CrNiMo 17 13
1.4438	X2CrNiMo 18 16 4 (X2CrNiMo 18-15-4)	317 L	Z 2 CND 19-15-04 Z 3 CND 19-15-04	317 S 12	-	SUS 317 L	2367	F.3539 - X 2 CrNiMo 18 16 4	X 2 CrNiMo 18 16
1.4449	X5CrNiMo 17 13	317	-	317 S 16	-	SUS 317	-	-	X 5 CrNiMo 18 15
1.4460	X4CrNiMoN 27 5 2 (X3CrNiMoN27-5-2)	329	(Z 3 CND 25-07 Az) Z 5 CND 27-05 Az	-	-	SUS 329 J1	2324	F.3309 - X 8 CrNiMo 27-05 F.3552 - x 8 CrNiMo 26 6	-
1.4462	X2CrNiMoN22-5-3	-	Z 3 CND 22-05 Az (Z 2 CND 24-08 Az) (Z 3 CND 25-06-03 Az)	318 S 13	-	SUS 329 J3L	2377	-	-
1.4510	X 6CrTi 17 (X3CrTi 17)	XM 8 430 Ti 439	Z 4 CT 17	-	08Ch17T	SUS 430 LX	-	F.3115 - X 5 CrTi 17	X 6 CrTi 17
1.4511	X6CrNb 17 (X3CrNb 17)	-	Z 4 CNb 17	-	-	SUS 430 LX	-	F.3122 - X 5 CrNb 17	X 6 CrNb 17
1.4512	X 6CrTi 12 (X2CrTi12)	409	Z 3 CT 12	LW 19 409 S 19	-	SUH 409	-	-	X 6 CrTi 12
1.4521	X2CrMoTi 18-2	443 444	-	-	-	SUS 444	2326	F.3123 - X 2 CrMoTiNb 18 2	-
1.4539	X1NiCrMoCun25-20-5	UNS N 08004	Z 2 NCDU 25-20	-	-	-	2562	-	-
1.4541	X6CrNiTi 18-10	321	Z 6 CNT 18-10	321 S 31 321 S 51 (1010; 1105) LW 24 LWCF 24	06Ch18N10T 08Ch18N10T 09Ch18N10T 12Ch18N10T	SUS 321	2337	F.3523 - X 6 CrNiTi 18 10	X 6 CrNiTi 18 11
1.4542	X5CrNiCuNb 17 4 (X5CrNiCuNb 16-4)	630	Z 7 CNU 15-05 Z 7 CNU 17-04	-	-	SCS 24 SUS 630	-	-	-
1.4544	-	-	-	S. 524 S. 526	08Ch18N12T	-	-	-	X 6 CrNiTi 18 11
1.4545	X5CrNiNb 18-10	348	-	347 S 31 2 S. 130 2 S. 143/144/145 S.525/527	-	-	-	-	X 6 CrNiNb 18 11
1.4550	X6CrNiNb 18-10	347 348	Z 6 CNNb 18-10	347 S 20 347 S 31 347 S 51 ANC 3 B	08Ch18N12B	SUS 347	2338	F.3524 - X 6 CrNiNb 18 10	X 6 CrNiNb 18 11 X 8 CrNiNb 18 11
1.4552	GX 5CrNiNb 19-10 / G-X 5CrNiNb 18 9	-	Z 6 CNNb 18.10M	347 C 17	-	SCS 21	-	-	-
1.4568	X7CrNiAl 17-7	-	Z 9 CAN 17-07	301 S 81	09Ch17N7Ju1	-	2388	-	-
1.4571	X6CrNiMoTi 17-12-2	316 Ti	Z 6 CND 17-12	320 S 18 320 S 31	10Ch17N13M2T	SUS 316 Ti	2350	F.3535 - X 6 CrNiMoTi 17 12 2	X 6 CrNiMoTi 17 12

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1.4573	X10CrNiMoTi 18 12	316 Ti	-	320 S 33	10Ch17N13M3T 08Ch17N13M2T	SUS 316 Ti	-	F.3535 - X 6 CrNiMoTi 17 12 2	X 6 CrNiMoTi 17 13
1.4580	X6CrNiMoNb 17-12-2	(316 Nb)	Z 6 CNDNb 17-12	318 S 17	08Ch16N13M2B	-	-	F.3536 - X 6 CrNiMoNb 17 12 2	X 6 CrNiMoNb 17 12
1.4581	GX 5CrNiMoNb 19-11 G-X 5 CrNiMoNb 18 10	-	Z 4 CNDNb 18.12M	318 C 17 ANC 4 C	-	SCS 22	-	-	GX 6 CrNiMoNb 20 11
1.4583	X10CrNiMoNb 18-12	318	-	-	-	-	-	-	X 6 CrNiMoNb 17 13
1.4718	X45CrSi9-3	HNV 3	Z 45 CS 9	401 S 45	40Ch9S2	SUH 1	-	F.3220 - X 4 SCrSi 09-03	X 45 CrSi 8
1.4724	X10CrAl 13	-	Z 13 C 13	-	10Ch13SJü	-	-	F.3152 - X 10 CrAl 13	X 10 CrAl 12
1.4731	X40CrSiMo 10-2	-	Z 40 CSD 10	-	40Ch10S2M	SUH 3	-	F.3221 - X 40 CrSiMo 10-02	-
1.4742	X10CrAl 18	-	Z 12 CAS 18	-	15Ch18SJü	SUH 21	-	f.3153 - X 10 CrAl 18	(X 8 Cr 17)
1.4747	X80CrNiSi 20	HNV 6	Z 80 CNS 20-02	443 S 65	-	SUH 4	-	F.3222 - x 80 CrSiNi 20-02	X 80 CrSiNi 20
1.4762	X10CrAl24	(446)	Z 12 CAS 25	-	-	(SUH 446)	(2322)	F.3154 - X 10 CrAl 24	(X 16 Cr 26)
1.4828	X15CrNiSi20-12	309	Z 9 CN 24-13 Z 17 CNS 20-12	309 S 24	20Ch20N14S2	SUH 309	-	F.3312 - X 15 CrNiSi 20-12	X 16 CrNi 23 14
1.4833	X 12CrNi 24-12 X 7 CrNi 23 14	309 S	Z 15 CN 23-13 Z 15 CN 24-13 Z 20 CN 24-13	-	-	SUS 309 S	-	-	X 6 CrNi 23 14
1.4837	GX40CrNiSi 25-12	-	-	309 C 30	40Ch24N12SL	SCH 13 A SCH 17 SCS 17	-	-	GX 35 Cr 25 12
1.4841	X15CrNiSi 25-20	314 310	Z 15 CNS 25-20 Z 15 CNS 25-20	314 S 25	20Ch25N20S2	SUH 310	-	F.3310 - X 15 CrNiSi 25-20	X 16 CrNiSi 25 20
1.4842	X12CrNi 25-20	310 S	Z 12 CN 26-21	-	-	SUS 310 S	2361	-	(X 6 CrNi 25 20)
1.4845	X12CrNi 25-21	310 S	Z 8 CN 20-20 Z 12 CN 25-20 Z 12 CN 26-21	310 S 16 310 S 24 310 S 25 310 S 31	20Ch23N18	SUH 310 SUS 310 S	2361	-	X 6 CrNi 25 21 (X 6 CrNi 25 20)
1.4848	GX40CrNiSi 25-20	HK	-	310 C 40 310 C 45	-	SCH 21 SCH 22	-	F.8452 - AM - X 40 CrNi 25 20	GX 40 CrNi 26 20
1.4864	X12NiCrSi 36-16	330	Z 20 NCS 33-16	NA 17	-	SUH 330	-	F.3313 - X 12 CrNiSi 36-16	-
1.4865	GX40NiCrSi 38-18	-	-	330 C 11 330 C 40 331 C 40	-	SCH 15 SCH 16	-	-	GX 50 NiCr 39 19
1.4871	X53CrMnNiN 21-9	EV 8	Z 53 CMNS 21-09 Az Z 53 CMN 21-09 Az	349 S 54	55Ch20G9AN4	SUH 35 SUH 36	-	F.3217 - X 53 CrMnNiN 21-09	X 53 CrMnNiN 21 9
1.4873	X45CrNiW 18-9	-	Z 35 CNWS 14-14 Z 45 CNW 18-09	-	-	SUH 31	-	F.3211 - X 45 CrNiSiW 18-09	X 45 CrNiW 18 9
1.4876	X10NiCrAlTi 32-20	B 163	Z 8 NC 33-21 Z 10 NC 32-21	NA 15 (H)	-	NCF 800 (TP)	-	F.3545 - X 9 NiCr 33-21 F.3314 - X 10 NiCrAlTi 32-20	-
1.4878	X12CrNiTi 18-9	321	Z 6 CNT 18-10	321 S 51	-	SUS 321	(2337)	-	(X 6 CrNiTi 18.110)
1.4922	X20CrMoV 12-1	-	-	-	-	-	2317	-	X 20 CrMoNi 12 01
1.4944	-	660	Z 6 NCTDV 25-15 B	HR 51	-	-	-	-	-