

t.gainza, s.l.		MOST COMMON QUALITIES AND THEIR EQUIVALENTS	
AMERICAN STANDARDS		EUROPEAN STANDARDS	
UNS	DESIGNATION	N°	DESIGNATION

CARBON STEELS			
	ASTM A-105	1.0460	C22.8 DIN-17.243 , EN-10.273
	ASTM A-266 Gr-1,2,3,4	1.0436	P305 GH EN-10.222-2 (P245GH , P280GH)
		1.0038	S235JRG2 EN-10.250-2
		1.0116	S235J2G3 EN-10.250-2
		1.0570	S355J2G3 EN-10.250-2 (St-52.3)
G10350	ASTM A-322 Grade 1035	1.1181	C35E EN-10.250-2
G10450	ASTM A-322 Grade 1045	1.1191	C45E EN-10.250-2
		1.1203	C55E EN-10.250-2
		1.1221	C60E EN-10.250-2
ALLOY STEELS			
		1.7218	25CrMo4 EN-10.250-3
		1.7220	34CrMo4 EN-10.250-3
G41300	ASTM A-322 Grade 4130		
G41400	ASTM A-322 Grade 4140	1.7225	42CrMo4 EN-10.250-3
		1.6582	34CrNiMo6 EN-10.250-3
G43400	ASTM A-322 Grade 4340		
		1.6580	30CrNiMo8 EN-10.250-3
		1.8159	51CrV4 EN-10.250-3

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WELDABLE FINE GRAIN STEELS WITH HIGH PROOF STRENGTH			
		1.0477	P285NH EN-10.222-4
	ASTM A-694 Grade F-42	1.0478	P285QH EN-10.222-4
		1.0565	P355NH EN-10.222-4
	ASTM A-694 Grade F-52	1.0571	P355QH1 EN-10.222-4
		1.8932	P420NH EN-10.222-4
	ASTM A-694 Grade F-60	1.8936	P420QH EN-10.222-4
	ASTM A-694 Grade F-65		
	ASTM A-694 Grade F-70		
STEELS FOR LOW TEMPERATURE SERVICE			
	ASTM A350 Grade LF-1		
	ASTM A350 Grade LF-2		
	ASTM A350 Grade LF-3	1.5637	12Ni14 EN-10.222-3
		1.5680	X12Ni5 EN-10.222-3
	ASTM A-553 Grade 9%Ni	1.5662	X8Ni9 EN-10.222-3

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ALLOY STEELS FOR HIGH TEMPERATURE SERVICE

K12822	ASTM A-182 Grade F-1		
		1.5415	16Mo3 EN-10.222-2
K11572	ASTM A-182 Grade F-11		
K11564	ASTM A-182 Grade F-12	1.7335	13CrMo4-5 EN-10.222-2
K21590	ASTM A-182 Grade F-22	1.7383	11CrMo9-10 EN-10.222-2
K31835	ASTM A-182 Grade F-22V		
K41545	ASTM A-182 Grade F-5	1.7366	X16CrMo5-1 EN-10.222-2
K90941	ASTM A-182 Grade F-9		
K90901	ASTM A-182 Grade F-91	1.4903	X10CrMoVNb9-1 EN-10.222-2
		1.4922	X20CrMoV11-1 EN-10.222-2
	ASTM A-508 Grade 3	1.6311	20MnMoNi4-5 Vd TÜV-440/3
		1.6308	18MnMoNi5-5 EN-10.222-2
		1.6368	15NiCuMoNb5 Vd TÜV-377/3

MARTENSITIC STAINLESS STEELS

S41000	ASTM A-182 Grade F-6a , ASTM A-473 Grade 410	1.4006	X12Cr13 EN-10.250-4
S42000	ASTM A-473 Grade 420	1.4021	X20Cr13 EN-10.250-4
S43100	ASTM A-473 Grade 431	1.4057	X17CrNi16-2 EN-10.250-4
S41500	ASTM A-182 Grade F6NM, ASTM A-473 S41500	1.4313	X3CrNiMo13-4 EN-10.222-5 , EN-10.250-4
		1.4418	X4CrNiMo16-5-1 EN-10.250-4

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AUSTENITIC STAINLESS STEELS

S30400	ASTM A-182 Grade F-304	1.4301	X5CrNi18-10 EN-10.222-5/EN-10.250-4
S30403	ASTM A-182 Grade F-304L	1.4307	X2CrNi18-9 EN-10.222-5/EN-10.250-4
S30453	ASTM A-182 Grade F-304LN	1.4311	X2CrNiN18-10 EN-10.222-5/EN-10.250-4
S31000	ASTM A-182 Grade F-310	1.4845	X8CrNi25-21 EN-10.095
S31600	ASTM A-182 Grade F-316	1.4401	X5CrNiMo 17-12-2 EN-10.222-5/EN-10.250/4
S31603	ASTM A-182 Grade F-316L	1.4404	X2CrNiMo17-12-2 EN-10.222-5/EN-10.250-4
S31653	ASTM A-182 Grade F-316LN	1.4406	X2CrNiMoN 17-11-2 EN-10.222-5/EN-10.250-4
S31603	ASTM A-182 Grade F-316-L UREA GRADE	1.4435	X2CrNiMo18-14-3 EN-10.222-5/EN-10.250-4
S31635	ASTM A-182 Grade F-316+Ti	1.4571	X6CrNiMoTi17-12-2 EN-10.222-5/EN-10.250-4
S31700	ASTM A-182 Grade F-317		
S31703	ASTM A-182 Grade F-317L	1.4438	DIN-17.440
S32100	ASTM A-182 Grade F-321	1.4541	X6CrNiTi18-10 EN-10.222-5/EN-10.250-4
S34700	ASTM A-182 Grade F-347	1.4550	X6CrNiNb18-10 EN-10.222-5/EN-10.250-4
S31635	ASTM A-182 Grade F-316+Ti	1.4571	X6CrNiMoTi17-12-2 EN-10.222-5/EN-10.250-4

AGE HARDENING STAINLESS STEEL

S17400	ASTM A-705 Tp-630 (17.4 PH)	1.4542	X5CrNiCuNb16-4 EN-10.250-4
S66286	ASTM A-638 Grade 660	1.4980	X5NiCrTi16-15 Vd TÜV-453/3
N07718	ASTM B-637 Grade 718 (ALLOY-718)	2.4668	NiCr19NbMo EN-10.302
N05500	ASTM B-865 Grade N05500 (MONEL K-500)	2.4375	NiCu30Al DIN-17.743

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FERRITIC -AUSTENITIC STAINLESS STEELS (DUPLEX)			
S31803	ASTM A-182 Grade F-51	1.4462	X2CrNiMoN22-5-3 EN-10.222-5/EN-10.250-4
S32750	ASTM A-182 Grade F-53	1.4410	X2CrNiMoN25-7-4 EN-10.222-5/EN-10.250-4
S32760	ASTM A-182 Grade F-55	1.4501	X2CrNiMoCuWN25-7-4 EN-10250-4
S32205	ASTM A-182 Grade F-60		

SUPER AUSTENITIC STAINLESS STEEL			
N08904	ASTM A-182 Grade F-904-L	1.4539	X1NiCrMoCu25-20-5 EN-10.250-4
N08028	ASTM B-709 / B-668 Alloy-28	1.4563	X1NiCrMoCu31-27-4 EN-10.250-4
S31254	ASTM A-182 Grade F-44 (254SMO)	1.4547	X1CrNiMoCuN20-18-7 EN-10.250-4

NICKEL BASE ALLOYS			
N04400	ASTM B-564 Grade N04400 (MONEL-400)	2.4360	NiCu30Fe DIN-17.743
N06600	ASTM B-564 Grade ALLOY-600	2.4816	NiCr15Fe EN-10.095
N06625	ASTM B-564 Grade ALLOY-625	2.4856	NiCr22Mo9Nb EN-10.095
N08020	ASTM B-462 Grade ALLOY-20	2.4660	NiCr20CuMo DIN-17.744
N08800	ASTM B-564 Grade ALLOY-800	1.4876	X10NiCrAlTi32-21 EN-10.095
N08810	ASTM B-564 Grade ALLOY-800H	1.4876	X10NiCrAlTi32-20H Vd TÜV-434
N08811	ASTM B-564 Grade ALLOY-800HT		
N08825	ASTM B-564 Grade ALLOY-825	2.4858	NiCr21Mo Vd TÜV-432
N010276	ASTM B-564 Grade ALLOY C-276	2.4819	NiMo16Cr15W Vd TÜV-400

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CASE HARDENING STEEL			
		1.7243	18CrMo4 EN-10.084
		1.6587	18CrNiMo7-6 EN-10.084
		1.6657	14NiCrMo13.4 EN-10.084
NITRIDING STEEL			
		1.8519	31CrMoV9 EN-10.085
		1.8509	41CrAlMo7-10 EN-10.085
TOOL STEELS			
		1.2067	102Cr6 EN-ISO 4957
		1.2714	55NiCrMoV7 EN-ISO 4957
		1.2842	95MnCrV5 EN-ISO 4957
		1.2344	X40CrMoV-5 EN-ISO 4957
		1.2365	X32CrMoV12-28 EN-ISO 4957
		1.2379	X153CrMoV12 EN-ISO 4957

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