

Simdex

**Stainless and high alloy
steel grades
used by pipe and tube
manufacturers**

**AISI / JIS / UNS / EN / DIN
steel grades equivalence table**

**Based on a sample
of 235 stainless and high alloy
steel pipe and tube manufacturers**

The Simdex Buyer's Guide on Steel Tube and Pipe Manufacturers



*detailed information on
more than 100 steel tube and pipe
manufacturers
from 70 countries*

book

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**The only source
that gives you all the information you need
on carbon and stainless
steel tube and pipe manufacturers**

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Austenitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
201	SUS 201	S 201 00	1.4372 (EN)	X12CrMnNiN17-7-5
	QMS 5			
202	SUS 202	S 202 00		
		S 209 10		
		S 215 00		
		S 245 65		
219				X4CrNiMn21-9-6
301	SUS 301	S 301 00	1.4310 (EN)	X10CrNi18-8
301 L			1.4318 (EN)	X2CrNi18-7
302	SUS 302	S 302 00	1.4319	X10CrNi18-9
303	SUS 303	S 303 00	1.4305 (EN)	X8CrNiS18-9
	SUS 303 Cu			
	SUS 303 HS2			
	SUS 303 HS3			
303 Se	SUS 303 Se	S 303 23		X10CrNiS18-9
304	SUS 304	S 304 00	1.4301 (EN)	X6CrNi18-10
304 Cu	SUS XM 7	S 304 30		
304 L	SUS 304 L	S 304 03	1.4306 (EN)	X2CrNi19-11
304 L	SUS 304 L	S 304 03	1.4307 (EN)	X2CrNi18-9
	SUS 304 ELC			
304 H	SUS 304 H	S 304 09	1.4948	X8CrNi19-10
	SUS 304 Cu1			
	SUS 304 Cu2			
		S 304 15	1.4891	
		S 304 15	1.4818	
304 N	SUS 304 N1	S 304 51		X5CrNi18-10
	SUS 304 N2			
304 LN	SUS 304 LN	S 304 53	1.4311 (EN)	X2CrNi18-10
	SUS 304 MF			
305	SUS 305	S 305 00	1.4303 (EN)	X8CrNi18-12
	SUS 305 J1			
F 46		S 306 00	1.4361 (EN)	X1CrNiSi18-15-4
		S 306 15		
308				
309		S 309 00	1.4828	X15CrNi23-13
309		S 309 00	1.4829	
309 S	SUS 309 S	S 309 08	1.4828	X15CrNiSi20-12
309 S	SUS 309 S	S 309 08	1.4833	X6CrNi22-13
309 S	SUS 309 S	S 309 08	1.4833	X12CrNi23-13
309 H		S 309 09	1.4833	

Austenitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
309 Cb		S 309 40		
309 HCb		S 309 41		
310			1.4841	X15CrNiSi25-20
310			1.4845	X12CrNi25-20
	SUS 310 ELC			
310 L			1.4335 (EN)	X1CrNi25-21
310 L			1.4466 (EN)	X1CrNiMoN25-22-2
310 S	SUS 310 S	S 310 08	1.4842	X6CrNi25-20
310 S	SUS 310 S	S 310 08	1.4845 (EN)	X8CrNi25-21
310 H		S 310 09	1.4845	
310 Cb		S 310 40		
310 HCb		S 310 41		
310 HCbN		S 310 42		
310 SCB				
		S 310 50	1.4465	X1CrNiMoN25-25-2
		S 310 50	1.4466 (EN)	X1CrNiMoN25-22-2
F44		S 312 54	1.4547 (EN)	X1CrNiMoCuN20-18-7
314	SUS 314	S 314 00	1.4841	X15CrNiSi25-20
316	SUS 316	S 316 00	1.4401 (EN)	X5CrNiMo17-12-2
316	SUS 316	S 316 00	1.4436 (EN)	X3CrNiMo17-13-3
316 Cb		S 316 40	1.4580 (EN)	X6CrNiMoNb17-12-2
316 F	SUS 316 F	S 316 20	1.4427	X6CrNiMoS18-11
316 L	SUS 316 L	S 316 03	1.4404 (EN)	X2CrNiMo17-12-2
316 L	SUS 316 L	S 316 03	1.4406	X2CrNiMoN17-11-2
316 L	SUS 316 L	S 316 03	1.4432 (EN)	X2CrNiMo17-12-3
316 L	SUS 316 L	S 316 03	1.4435 (EN)	X2CrNiMo18-14-3
316 L	SUS 316 L	S 316 03	1.4441	X6CrNiMo17-11
316 H	SUS 316 H	S 319 09	1.4919	X6CrNiMo17-12
	SUS 316 J1			
	SUS 316 J1L			
316 N	SUS 316 N	S 316 51	1.4406 (EN)	X2CrNiMoN17-11-2
316 LS			1.4436 (EN)	X3CrNiMo17-13-3
316 LS			1.4435 (EN)	X2CrNiMo18-14-3
316 LN	SUS 316 LN	S 316 53	1.4406	X2CrNiMoN17-11-2
316 LN	SUS 316 LN	S 316 53	1.4429 (EN)	X2CrNiMoN17-13-3
316 LN	SUS 316 LN	S 316 53	1.3952	X2CrNiMoN18-14-3
316 LN	SUS 316 LN	S 316 53	1.4910	
316 S				
316 Ti	SUS 316 Ti	S 316 35	1.4571 (EN)	X6CrNiMoTi17-12-2
316 Ti	SUS 316 Ti	S 316 35	1.4573	X10CrNiMoTi17-13-3

Austenitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
317	SUS 317	S 317 00		
	SUS 317 J1			
317 L	SUS 317 L	S 317 03	1.4438 (EN)	X2CrNiMo18-15-4
317 L		S 317 03	1.4434 (EN)	X2CrNiMoN18-12-4
317 LM		S 317 25		
317 LN		S 317 53	1.4439 (EN)	X2CrNiMoN17-13-5
317 LMN		S 317 26	1.4439 (EN)	X2CrNiMoN17-13-5
F 48		S 317 26	1.4439 (EN)	X2CrNiMoN17-13-5
318				
319				
319 L				
321	SUS 321	S 321 00	1.4541 (EN)	X6CrNiTi18-10
321	SUS 321	S 321 00	1.4878	X12CrNiTi18-9
321 H	SUS 321 H	S 321 09	1.4878	X12CrNiTi18-9
321 H	SUS 321 H	S 321 09	1.4941	X7CrNiTi18-11
		S 326 15		
		S 326 54		
327			1.4821	
		S 327 50		
		S 328 03		
333				
		S 332 28		
347	SUS 347	S 347 00	1.4550 (EN)	X6CrNiNb18-10
347 H	SUS 347 H	S 347 09	1.4961	X6CrNiNb18-12
347 HFG				
348		S 348 00	1.4878	
348 H		S 348 09		
		S 353 15	1.4835	
926			1.4529 (EN)	X1NiCrMoCuN25-20-7
21-6-9		S219 04		
22-13-5		S 209 10	1.3964	X2CrNiMnMoNNb21-16-5-3
16-8-2H				
XM-10		S 219 00		
XM-11		S 219 04		
XM-15		S 381 00		
	SUS XM 15J1			
XM-17		S 216 00		
XM-18		S 216 03		
XM-19		S 209 10	1.3964	X2CrNiMnMoNNb21-16-5-3
XM-19	SUS XM 19	S 209 10	1.3974	X2CrNiMnMoNNb23-17-6-3

Austenitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
XM-21		S 304 52		
XM-29		S 240 00		
XM-31		S 214 00		
			1.4371 (EN)	X2CrMnNiN17-7-5
			1.4373 (EN)	X12CrMnNiN18-9-5
			1.4537 (EN)	X1CrNiMoCuN25-25-5
			1.4577	X5CrNiMoTi25-25
			1.4848	
				X6CrNiCu18-10-4Kd

High temperature austenitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
Alloy 286		S 662 86	1.4980	X5NiCrTi26-15
			1.4961	X8CrNiNb16-3
			1.4981	X8CrNiMoNb16-16
			1.4988	X8CrNiMoVNb16-13

Ferritic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
405	SUS 405	S 405 00		
409		S 409 00	1.4512 (EN)	X2CrTi12
409 L				
	SUS 410 LC			
410 S		S 410 08	1.4516 (EN)	X6CrNiTi12
410 Ti	SUS 410 Ti			
418				
429	SUS 429	S 429 00		
430	SUS 430	S 430 00	1.4016 (EN)	X6Cr17
430 F	SUS 430 F	S 430 20		
430 Cb		S 430 40	1.4511	X3CrNb17
430 Ti	SUS 430 Ti	S 430 35		
430 Ti	SUS 430 Ti	S 430 36		
434	SUS 434	S 434 00	1.4113	X6CrMo17-1
436			1.4536	
439		S 430 35	1.4510 (EN)	X3CrTi17
439 L				
440 A		S 440 00	1.4522	
440 B		S 440 00		
441			1.4509 (EN)	X2CrTiNb18
442				
443	SUS 443	S 443 00		
444	QS 192	S 444 00	1.4521 (EN)	X2CrMoTi18-2
446	SUH 446	S 446 00	1.4749	X18CrN28
455				
490				
501				
XM-15				
	QS 25T			
XM-27	QS 261	S 446 27		
XM-33		S 446 26		
18-2	QS 192	S 444 00	1.4521 (EN)	X2CrMoTi18-2
19-3	QS 192	S 444 00	1.4521 (EN)	X2CrMoTi18-2
25-4-4		S 446 35		
26-3-3		S 446 60		
29-4		S 447 00		
29-4C		S 447 35		
29-4-2		S 448 00		
P9		S 504 00		
		S 890 40		

Ferritic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
		S 890 25		
		S 890 26		
			1.4000 (EN)	X6Cr13
			1.4002 (EN)	X6CrAl13
			1.4003 (EN)	X2CrNi12
			1.4017 (EN)	X6CrNi17-1
			1.4024	X15Cr13
			1.4505	
			1.4506	
			1.4513 (EN)	X2CrMoTi17-1
			1.4520 (EN)	X2CrTi17
			1.4526 (EN)	X6CrMoNb17-1
			1.4575	
			1.4590 (EN)	X2CrNbZr17
			1.4592 (EN)	X2CrMoTi29-4
			1.4605 (EN)	X2CrAlTi18-2
			1.4724	
	Y 4L			
	SIC 8			
	SIC 9			
	SIC 10			
	SIC 12			

Heat resistant ferritic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
			1.4713	X10CrAl7
			1.4742	X10CrAl18
			1.4781	X10CrAl24

Duplex (ferritic / austenitic) stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
2205	QS 2205	S 318 03	1.4462 (EN)	X2CrNiMoN22-5-3
2205		S 322 05		
2304	QSA 2505	S 323 04	1.4462 (EN)	X2CrNiMoN22-5-3
2506		S 312 60		
2507		S 327 50	1.4410 (EN)	X2CrNiMoN25-7-4
2550		S 325 50	1.4460	
2550		S 325 50	1.4507 (EN)	X2CrNiMoCuN25-6-3
F 50	QS 2205	S 312 00	1.4460	X3CrNiMoN27-5-2
F 51		S 318 03	1.4462 (EN)	X2CrNiMoN22-5-3
F 51		S 322 05		
F 52		S 329 50		
F 53		S 327 50	1.4410 (EN)	X2CrNiMoN25-7-4
F 54	QS 1905	S 327 40		
F 55		S 327 60	1.4501 (EN)	X2CrNiMoCuWN25-7-4
		S 312 54		
		S 315 00	1.4417	X2CrNiMoSi19-5
		S 317 60		
329	SUS 329 J1	S 329 00		
	SUS 329 J2L			
4462				
			1.4362 (EN)	X2CrNiN23-4
		S 392 74		

Martensitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
403	SUS 403	S 403 00		
		S 408 00		
410	SUS 410	S 410 00	1.4006 (EN)	X12Cr13
414				
	SUS 410 J1			
410 S		S 410 08	1.4006 (EN)	X12Cr13
		S 410 50	1.4030	
F6NM		S 415 00	1.4313 (EN)	X3CrNiMo13-4
416	SUS 416	S 416 00		
	SUS 416 HS2			
	SUS 416 L			
416Se				
420		S 420 00	1.4021 (EN)	X20Cr13
		S 420 10	1.4021 (EN)	X20Cr13
420	SUS 420 J1	S 420 00	1.4028 (EN)	X30Cr13
	SUS 420 J2			
	SUS 420 J2C			
	SUS 420 J2L			
420 F	SUS 420 F	S 420 20		
F3NM		S 424 00	1.4320	X2CrNiMo13-4
	SUS 429 J1			
431	SUS 431	S 431 00		
440 A		S 440 00		
440 C	SUS 440 C	S 440 04		
	SUS 440 F			
XM 12		S 155 00	1.4545	X5CrNiCuNb15-5-4
			1.4031 (EN)	X39Cr13
			1.4034 (EN)	X46Cr13
			1.4116 (EN)	X50CrMoV15
			1.4122 (EN)	X39CrMo17-1
			1.4418 (EN)	X4CrNiMo16-5-1
			1.4922	X20CrMoV12-1
			1.4935	X20CrMoWV12-1
	QD 51			
	QPD 5			
	Y 2L			
	Y 2LF			

High temperature martensitic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
F 91			1.4903	X10CrMoVNb9-1
			1.4913	X19CrMoVNbN11-1
			1.4922	X20CrMoV12-1

Antimagnetic stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
	QMR 1L			
	QMR 2L			
	QMR 3L			
	QMR 4L			
	QMR 5L			
			1.3951	X2CrNiMoN22-15

Precipitation hardening stainless steel

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
630		S 174 00	1.4532 (EN)	X8CrNiMoAl15-7-2
			1.4542 (EN)	X5CrNiCuNb16-4
			1.4568 (EN)	X7CrNiAl17-7
631	SUS 631	S 177 00		
16-6 PH				
AM 350				
AM 355				
Alloy 15-5 PH				
Alloy 17-4 PH				
Alloy 17-7 PH				
Alloy 718				
USS Stainless W				

High molybdenum alloy

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
Alloy 29-4		S 447 35		
Alloy 29-4-2				
Alloy 254 SMO		S 312 54	1.4547 (EN)	X1CrNiMoCuN20-18-7
Alloy 256 MO		N 08 926	1.4529 (EN)	X1NiCrMoCuN25-20-7
Alloy 654 SMO		S 326 54	1.4652	
Alloy 904 L	QS 2025 MC	N 08 904	1.4539 (EN)	X1NiCrMoCu25-20-5
Alloy 1925 HMO		N 08 925		
Alloy C-276		N 10 276		
Alloy C-1008				
Alloy C-1010				
Alloy F 49		S 345 65	1.4565	X3CrNiMnMoNbN23-17-5-3
	QS 2025 MT	N 08 320		
			1.4583	X6CrNiMoN18-12
				X1NiCrMoCuN20-18-7

High nickel alloy

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
	QS 20 Cb3	N 08 020		
	QS 2830	N 08 028	1.4563 (EN)	X1NiCrMoCu31-27-4
		N 08 310		
		N 05 500	2.4375	
Alloy B2		N 10 665		
Alloy C4		N 06 455	2.4610	
Alloy CP Gr2		R 50 400		
Alloy C22		N 06 022	2.4602	
		N 06 059	2.4605	
Alloy C-276	QA C276	N 10 276	2.4819	
Alloy G	QA G	N 06 007		
		N 06 617	2.4663	
Alloy G-3	QA G3	N 06 985		
Alloy G-30		N 06 030		
Alloy K-500				
Alloy L-605		R 30 605		
Alloy HX				
Alloy MP35N				
Alloy X	QA X	N 06 002		
Alloy X-750				
Alloy 6AC				
Alloy 6XN		N 08 367		
Alloy 20				
Alloy 25				
Alloy 31		N 08 031	1.4562	
Alloy 41XX				
Alloy 42				
Alloy 43XX				
Alloy 52				
Alloy 59		N 06 059		
Alloy 188				
Alloy 205				
Alloy 220				
Alloy 222				
Alloy 230				
Alloy 253 RMA				
Alloy 400	QA 400	N 04 400	2.4360	NiCu30
Alloy 556				
Alloy 600	NCF 600	N 06 600	2.4816	NiCr15Fe
Alloy 600	NCF 600	N 06 600	2.4640	NiCr15Fe

High nickel alloy

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
Alloy 601	NCF 601	N 06 601	2.4851	NiCr23Fe
Alloy 602			2.4633	
Alloy 622		N 06 622		
Alloy 625	QA 625	N 06 625	2.4856	
Alloy 686				
Alloy 690		N 06 690	2.4642	NiCr29Fe
JS 700	QS 2025 M	N 08 700		
Alloy 718		N 07 718	2.4668	NiCr19NbMo
Alloy 800	NCF 800	N 08 800	1.4558	X2NiCrAlTi32-20
Alloy 800		N 08 800	1.4958	X5NiCrAlTi31-20
Alloy 800	NCF 800	N 08 800	1.4876	X10NiCrAlTi32-20
Alloy 800 H	NCF 800 H	N 08 810	1.4958	X8NiCrAlTi32-21
Alloy 800 HT		N 08 811	1.4959	X8NiCrAlTi32-21
Alloy 825	NCF 825	N 08 825	2.4858	NiCr21Mo
		N 08 840		
Alloy 902				
Cupronickel 10		C 706 00	2.0872	CuNi10Fe
Cupronickel 30		C 715 00	2.0882	CuNi30Mn1Fe
Alloy 330			1.4864	X12NiCrSi36-16
			1.4877	
			2.4973	NiCr19CoMo

High temperature alloy

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
Alloy A 286		S 662 86		
Alloy MP-35N		R 30 035		
Alloy X 750		N 07 750		
Alloy 102		N 06 102		
Alloy 253MA or F45		S 308 15	1.4835	
Alloy 330		N 08 330		
Alloy 333		N 06 333		
Alloy 617		N 06 617		

Metals

USA, Japan			Europe	
AISI grade	JIS grade	UNS designation	EN / DIN numerical designation	EN / DIN symbolical designation
Titanium 3Al 2.5V				
Titanium Beta C				
Titanium Gr 1			3.7025	
Titanium Gr 2			3.7035	
Titanium Gr 3			3.7055	
Titanium Gr 4				
Titanium Gr 7			3.7235	
Titanium Gr 11			3.7225	
Titanium Cr 12				
Titanium T40				
Titanium T40 Gr2				
Zircaloy 1				
Zircaloy 2				
Zirconium				
Zirconium 2.5Nb				
Hafnium				
Copper				
Nickel 200	Ni 200	N 02 200	2.4060	
Nickel 201	Ni 201	N 02 201	2.4061	
Nickel 200		N 02 200	2.4066	
Nickel 201		N 02 201	2.4068	
Nickel 270				