

**Comparison table of commonly used metal material grades [MATERIAL SPECIFICATIONS]**

GRADE NAME	ASTM PIPE	SPECIFICATION FITTINGS	UNS NUMBER	WERKSTOFF NUMBER	DIN	BARSTOCK	FORGING	CASTING	DIVERSITY	RPA KEY
ST 37-2				1.0037	ST 37-2					
ST 52-3				1.057	ST 52-3					
CARBON STEEL (C22)			K30504	1.0402	C22	A105	A105	A216 WCB		609-509
CARBON STEEL (C22.8)				1.046		A105N	A105N			610-509
LOW TEMP CARBON STEEL			K03011	1.0508	TT St E 36	A350 LF2	A350 LF2	A352 LCB		515
HIGH YIELD STEEL			K03014			A694 F60	A694 F60			544
3 1/2 NICKEL STEEL			K32025	1.5639		A350 LF3	A350 LF3	A352 LC3		514
5 CHROME, 1/2 MOLY			K41545	1.7362	12CrMo19.5	A182 F5	A182 F5	A217 C5		504
1 1/4 CHROME, 1/2 MOLY			K11572 K11597	1.7733 1.7335	24CrMoV-55 13 CrMo 44	A739 B11	A182 F11	A217 WC6		507 507
2 1/4 CHROME, 1/2 MOLY			K21590	1.738	10CrMo9.10	A739 B22	A182 F22	A217 WC9		508
9 CHROME, 1 MOLY			K90941	1.7386		A182 F9	A182 F9	A217 CW6		
X 12 CHROME, 091 MOLY			K91560	1.4903			A182 F91	A217 C12	ALT 10 CrMo 9.10	506
13 CHROME			S41000			A276 or A479 410	A182 F6A	A351 CA15	ASTM A743 GR CA-15	
17-4PH			S17400	1.4542		A564 630	A564 630			
153 MA			S30415	1.4818						
201				1.4372						252
202			S20200	1.4371	X3CrMnNiN1887					
248 SV				1.4418						
253 MA			S30815	1.4835						220
254 SMO	A312	A403/WPS31254	S31254	1.4547		A182 F44	A182 F44	A351 CK3MCuN	ALGXN	221
301			S30100	1.431	X12CrNi177 / X10CrNi188					
301LN				1.4318	X2CrNiN187					
302			S30200	1.4300 / 1.4319	X12CrNi188					
303			S30300	1.4305	X10CrNi189					1
304	A312	A403/WP304	S30400	1.4301	X5CrNi1810/ X5CrNi189	A276 or A479 304	A182 F304	A351 CF8		2
304H			S30409	1.4948	X6CrNi1811					002-003-004
304L			S30403	1.4306 1.4307	X2CrNi1911	A276 or A479 304L	A182 F304L	A351 CF3		003
304/304L					X2CrNi189					004
304LN			S30453	1.4311	X2CrNiN1810					
305			S30500	1.4303 / 1.4312	X5CrNi1812					
308			S30800	1.4303	X8CrNi1812					
309	A312	A403/WP309	S30900	1.4828	X15CrNiSi2012	A276 or A479 309	A182 F309			006-130
309S			S30908	1.4833	X7CrNi2314					
310			S31008	1.4845		A479 310		A351 CK20		5
310L				1.4335	X1CrNi2521					
310S	A312	A403/WP310S	S31008	1.4845	X12CrNi2521	A276 or A479 310S	A182 F310S	A351 CK20		131
310/314	A312	A403/WP310	S31000	1.4841	X15CrNiSi2520	A276 or A479 310	A182 F310			130
316	A312	A403/WP316	S31600 S31600	1.4401 1.4436	X5CrNiMo17122 X5CrNiMo17133 X5CrNiMo1810	A276 or A479 316	A182 F316	A351 CF8M		008-070
316Cb			S31640	1.458	X6CrNiMoNb17122					
316F				1.4427	X4CrNiMoS1811					
316H			S31609	1.4919	X8CrNiMo1712					8
316L	A312	A403/WP316L	S31603	1.4404 1.4432	X2CrNiMo17132 X2CrNiMo17123 X2CrNiMo1810	A276 or A479 316L	A182 F316L	A351 CF3M		009 007
316LHMO			S31603	1.4435	X2CrNiMo18143					
316LN			S31653	1.4429 1.4406	X2CrNiMoN17133 X2CrNiMoN17122					
316Ti	A312	A403/WP316Ti	S31635	1.4571	X6CrNiMoTi17122	A276 or A479 316Ti	A182 F316Ti			11
317	A312	A403/WP317	S31700	1.4449	X5CrNiMo1713	A276 or A479 317	A182 F317L			12
317L	A312	A403/WP317L	S31703	1.4438	X2CrNiMoN18164	A276 or A479 317L	A182 F317L	A351CG8M		12
317LNM	A312	A403/WP317LNM	S31726	1.4434 / 1.4439	X2CrNiMoN17135	A276 or A479 317LNM	A182 F317LNM			12