

> Standard Comparison > Carbon Steel Tubes

GB(China)	JIS (Japanese)		ASTM (American)	Germany		
Grade	Grade	Standard	Grade	Grade	Material No.	Standard
(Q235)	GGP STPY41	G3452 G3457	(A53-F) A283-D	(St33)	1.0033	DIN1626
10#	STPG38	G3454	A135-A A53-A	(St37)	1.0110	DIN1626
	STPG38	G3456	A106-A	St37-2	1.0112	DIN17175
	STS38	G3455		St35.8 St35.4	1.0305 1.0309	DIN1629/4
	STB30	G3461	A179-C A214-C	St35.8	1.0305	DIN17175
	STB33	G3461	A192 A226	St35.8	1.0305	DIN17175
	STB35	G3461		St35.8	1.0305	DIN17175
20#	STPG42	G3454	A315-B A53-B	(St42) St42-2	1.0130 1.0132	DIN1626
	STPT42	G3456	A106-B	St45-8	1.0405	DIN17175
	STB42	G3461	A106-B	St45-8	1.0405	DIN17175
	STS42	G3455	A178-C A210-A-1	St45-4	1.0309	DIN1629/4

> Standard Comparison > Low Alloy Steel Tubes

GB(China)	JIS (Japanese)		ASTM (American)	Germany		
Grade	Grade	Standard	Grade	Grade	Material No.	Standard
16Mn	STS49 STPT49	G3455 G3456	A210-C	St52.4 St52	1.0832 1.0831	DIN1629/4 DIN1629/3
15MnV	STBL39	G3464				

> Standard Comparison > Low Temperature Tubes

GB(China)	JIS (Japanese)		ASTM (American)	Germany		
Grade	Grade	Standard	Grade	Grade	Material No.	Standard
16Mn	STPL39	G3460	A333-1.6	TT St35N	1.0356	SEW680
15MnV	STBL39	G3464	A334-1.6			
09Mn2V			A333-7.9 A334-7.9	TT St35N	1.0356	SEW680
(06A1NbCuN)	STPL46 STBL	G3460 G3464	A333-3.4 A334-3.4	10Ni14	1.5637	SEW680
(20Mn23A1)			A333-8 A334-8	X8Ni9	1.5662	SEW680

> Standard Comparison > Refractory Steel

GB(China)	JIS(Japanese)		ASTM(American)	Germany		
Grade	Grade	Standard	Grade	Grade	Material No.	Standard
16Mo	STPA12 STBA12,13	G3458 G3462	A335-P1 A369-FP1 A250-T1 A209-T1	15Mo3	1.5414	DIN17175
12CrMo	STBA20	G3462	A335-P2 A369-FP2 A213-T2			
15CrMo	STPA22 STBA22	G3458 G3462	A335-P12 A369-FP12 A213-T12	13CrMo44	1.7335	DIN17175
12Cr1MoV	STPA23 STBA23	G3458 G3462	A335-P11 A369-FP12 A199-T11 A213-T11			
Cr2Mo 10MoWVNb	STPA24 STBA24	G3458 G3462	A335-P22 A369-FP22 A199-T22 A213-T22	10CrMo910	1.7380	SEW610
Cr5Mo	STPA25 STBA25 STPA26 STBA26	G3458 G3462 G3458 G3462	A335-P5 A389-FP5 A213-T5 A335-P9 A369-FP9 A199-T9 A213-T9	12CrMo195	1.7362	DIN17175

> Standard Comparison > Stainless Steel

GB(China)	JIS(Japanese)		ASTM(American)	Germany		
Grade	Grade	Standard	Grade	Grade	Material No.	Standard
(1Gr13)	SUS410 TP	G3463	A268 TP410	X10Cr13	1.4006	DIN17440
(2Cr13)			(SISI 420)	X20Cr13	1.4021	DIN17440
(1Cr17)	SUS430 TB	G3463	A268 TP430/TP429	X8Cr17	1.4016	DIN17440
0Cr18Ni9	SUS304 TP/TB	G3459 G3463	A312 A376,TP304 A213,A249,A268 TP304	X5CrNi189	1.4301	DIN17440
(1Cr18Ni9)				X5CrNi189	1.4301	DIN17440
0Cr18Ni10Ti 1Cr18Ni9Ti	SUS321 TP/TB	G3459 G3463	A312,A376 TP321,A213,A249,A266 TP321	X10CrNiTi189	1.4541	DIN17440
0Cr18Ni13Mo2Ti	SUS316 TP/TB	G3459 G3463	A312,A376 TP316 A213,A249,A266 TP316			
0Cr18Ni13Mo3Ti	SUS317 TP/TB	G3459 G3463	A312,A376 TP316 A213,A249,A268 TP317			
00Cr18Ni10	SUS304L TP/TB	G3459 G3463	A312,A376 TP34L A213,A249,A268 TP304L	X2CrNi189	1.4306	DIN17440
00Cr17Ni13Mo2	SUS316L TP/TB	G3459 G3463	A312,A376 TP316L A213,A249,A268 TP316L	X2CrNi810	1.4404	DIN17440
00Cr17Ni13Mo3	SUS317L TP/TB	G3459 G3463	A312,A376, TP317L A213,A249,A268 TP317L			