

Chemical composition comparison table of commonly used stainless steel pipes (1)

serial number	grade	Standard	chemical composition											
			C (Max)	Si (Max)	Mn (Max)	P (Max)	S (Max)	Ni	Cr	Mo	Ti (Max)	Nb	N (Max)	Cu
1	0Cr18Ni9	GB/T14976	0.07	1.00	2.00	0.035	0.030	8.0~11.0	17.0~19.0					
		GB 13296												
	TP304	ASTM A312	0.08	1.00	2.00	0.045	0.030	8.0~11.0	18.0~20.0					
		ASTM A213												
		ASTM A269												
	MT304	ASTM A511												
SUS304TP	JIS G3459	0.08	1.00	2.00	0.045	0.030	8.0~11.0	18.0~20.0						
	JIS G3463				0.045									
1.4301 X5CrNi18-10	EN 10297	0.07	1.00	2.00	0.045	0.030	8.0~11.0	17.0~19.5				0.11		
	EN 10216				0.045									
2	00Cr19Ni10	GB/T14976	0.030	1.00	2.00	0.035	0.030	8.0~12.0	18.0~20.0					
		GB 13296												
	TP304L	ASTM A312	0.035	1.00	2.00	0.045	0.030	8.0~13.0	18.0~20.0					
		ASTM A213						8.0~12.0						
		ASTM A269						8.0~13.0						
	MT304L	ASTM A511				0.040		8.0~13.0						
	SUS304LTP	JIS G3459	0.030	1.00	2.00	0.045	0.030	9.0~13.0	18.0~20.0					
JIS G3463		0.040												
1.4307 X2CrNi18-9	EN 10297	0.030	1.00	2.00	0.045	0.015	8.0~10.5	17.5~19.5				0.11		
	EN 10216				0.040		8.0~10.0							
1.4306 X2CrNi19-11	EN 10297	0.030	1.00	2.00	0.045	0.015	10.0~12.0	18.0~20.0				0.11		
	EN 10216				0.040									
3	Xr18Ni12Mo2Ti	GB/T14976	0.08	1.00	2.00	0.035	0.030	11.0~14.0	16.0~19.0	1.8~2.5	5C%~0.7			
		GB 13296												
	TP316Ti	ASTM A312	0.08	0.75	2.00	0.045	0.030	10.0~14.0	16.0~18.0	2.0~3.0	5(C+N)%~0.7	0.11		
		ASTM A213												
SUS316TiTP	JIS G3459	0.08	1.00	2.00	0.045	0.030	10.0~14.0	16.0~18.0	2.0~3.0	5C%				
	JIS G3463				0.040									
1.4571 X6CrNiMo17-12-2	EN 10297	0.08	1.00	2.00	0.045	0.015	10.5~14.0	16.5~18.5	2.0~2.5	5C%~0.7				
	EN 10216				0.040		10.5~13.5							
4	1Cr19Ni9	GB 13296	0.04-0.10	1.00	2.00	0.035	0.030	8.0-11.0	18.0-20.0					
		GB 9948				0.030								
	07Cr19Ni10	GB 5310	0.04-0.10	1.00	2.00	0.045	0.030	8.0-11.0	18.0-20.0				0.20	
										0.015		0.25		
	TP304H	ASTM A312	0.04-0.10	1.00	2.00	0.045	0.030	8.0-11.0	18.0-20.0					
		ASTM A213												
SUS304HTP	JIS G3459	0.04-0.10	0.75	2.00	0.040	0.030	8.0-11.0	18.0-20.0						
	JIS G3463													
1.4948X6CrNi18-10	EN 10216	0.04-0.08	1.00	2.00	0.035	0.015	8.0-11.0	17.0-19.0						
5	0Cr17Ni12Mo2	GB/T14976	0.08	1.00	2.00	0.035	0.030	10.0-14.0	16.0-18.5	2.0-3.0				
		GB 13296						11.0-14.0	16.0-18.0					
	TP316	ASTM A312	0.08	1.00	2.00	0.045	0.030	11.0-14.0	16.0-18.0	2.0-3.0				
		ASTM A213						10.0-14.0						
		ASTM A269						11.0-14.0						
	MT316	ASTM A511				0.040		11.0-14.0						
SUS316TB	JIS G3459	0.08	1.00	2.00	0.045	0.030	10.0-14.0	16.0-18.0	2.0-3.0					
	JIS G3463				0.040									
1.4401 X5CrNiMo17-12-2	EN 10297	0.07	1.00	2.00	0.045	0.015	10.0-13.0	16.5-18.5	2.0-2.5			0.11		
	EN 10216													