

## Chemical Composition of Stainless Steel Pipe Fittings And Alloy Materials

Material	AISI	UNS	Chemical Composition/max.%												
			C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Ti	Co	Others
Stainless Steel	304	S30400	0.08	1.00	2.00	0.045	0.030	8.00~11.00	18.00~20.00						
	304L	S30403	0.03	1.00	2.00	0.045	0.030	8.00~12.00	18.00~20.00						
	316	S31600	0.08	1.00	2.00	0.045	0.030	10.00~14.00	16.00~18.00	2.00~3.00					
	316L	S31603	0.03	1.00	2.00	0.045	0.030	10.00~14.00	16.00~18.00	2.00~3.00					
	316Ti	S31635	0.08	0.75	2.00	0.045	0.030	10.00~14.00	16.00~18.00	2.00~3.00		0.10	5X(C + N)-0.70		
	310S	S31008	0.08	1.00	2.00	0.045	0.030	19.00~22.00	24.00~26.00						
	317L	S31703	0.03	1.00	2.00	0.045	0.030	11.00~15.00	18.00~20.00	3.00~4.00					
	321	S32100	0.08	1.00	2.00	0.045	0.030	9.00~12.00	17.00~19.00						Ti5C~0.70
	347	S34700	0.08	1.00	2.00	0.045	0.030	9.00~12.00	17.00~19.00						
347H	S34709	0.04-0.10	1.00	2.00	0.045	0.030	9.00~12.00	17.00~19.00	3.00~4.00						
Super Stainless Steel	S31254	S31254	0.02	0.80	1.00	0.03	0.010	17.5~18.5	19.5~20.5	6.00~6.50	0.5~1.0				N2C:0.18-0.22
	904L	N08904													
Duplex Steel(DSS)	2205	S31803	0.03	1.00	2.00	0.03	0.020	4.50~6.50	21.00~23.00	2.50~3.50		0.08~0.20			
	2507	S32750	0.03	0.80	1.20	0.035	0.020	6.00~8.00	24.00~26.00	3.00~5.00	0.5	0.24~0.32			
Nickel-Based Alloy	Monel400	N04400	0.3	0.50	2.00		0.024	min.63.0			28.0~34.0				Fe: 2.5
	Alloy 600	N06600	0.15	0.50	1.00		0.015	min. 72.0	14.0~17.00		0.5				Fe: 6.0-10.0
	Alloy 625	N06625	0.10	0.50	0.50	0.015	0.015	min. 58.0	20.0 ~ 23.0	8.0 ~ 10.0			0.40		Fe: 5.0, Al: 0.40, Nb+Ta: 3.15-4.15
	Alloy 800	N08800	0.10		1.50		0.015	30.0~35.0	19.00~23.00		0.75		0.15-0.6		Fe: min.39.5, Al: 0.15-0.6
	Alloy 800H	N08810	0.05-0.10		1.50		0.015	30.0~35.0	19.00~23.00		0.75		0.15-0.6		Fe: min.39.5, Al: 0.15-0.6
	Alloy 825	N08825	0.05	0.50			0.030	38.0 ~ 46.0	19.5 ~ 23.5	2.5 ~ 3.5	1.5 ~ 3.0		0.6-1.2		Fe: 22min.,Al: 0.20
	Alloy 20	N08020	0.07	1.00	2.00	0.045	0.035	32.0~38.0	19.00~21.00	2.00~3.00	3.00~4.00				Nb+Ta: 8C~1.0
C276	N10276	0.01	0.80	1.00	0.04	0.030	Remainder	14.5~16.5	15.0~17.0				2.5	Fe:4.0~7.0, V:0.35, W:3.0~4.5	

\*Chemical composition is from pipe and tube analytics, for reference only.

\*\*All element is the max. % except specific.

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