

Stainless Steel Chemical Composition Requirements

Stainless Steel Grade	C	Si	Mn	P	S	Cr	Ni	Mo	Nb
304	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	18.0 - 20.0	8.0 - 10.5	-	-
304L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	18.0 - 20.0	8.0 - 12.0	-	-
304H	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	18.0 - 20.0	8.0 - 10.5	-	-
309H	≤ 0.20	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	22.0 - 24.0	12.0 - 15.0	-	-
310H	≤ 0.25	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	24.0 - 26.0	19.0 - 22.0	-	-
316	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	16.0 - 18.0	10.0 - 14.0	2.0 - 3.0	-
316H	≤ 0.04	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	16.0 - 18.0	10.0 - 14.0	2.0 - 3.0	-
316L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	16.0 - 18.0	10.0 - 14.0	2.0 - 3.0	-
316LN	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	16.0 - 18.0	10.0 - 14.0	2.0 - 3.0	-
317	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	18.0 - 20.0	11.0 - 14.0	-	-
317L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	18.0 - 20.0	11.0 - 14.0	-	-
321	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	17.0 - 19.0	8.0 - 12.0	-	5.0 - 7.0
321H	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	17.0 - 19.0	9.0 - 12.0	-	5.0 - 7.0
347	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	17.0 - 19.0	8.0 - 12.0	-	-
347H	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.030	17.0 - 19.0	9.0 - 12.0	-	-
410	≤ 0.15	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	11.5 - 13.5	≤ 1.00	-	-
430	≤ 0.12	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	16.0 - 18.0	≤ 0.75	-	-
2205	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.030	≤ 0.020	21.0 - 23.0	4.5 - 6.5	3.0 - 5.0	-
17-4PH	≤ 0.07	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	15.0 - 17.5	3.0 - 5.0	4.0 - 6.0	-
254SMO	≤ 0.02	≤ 1.00	≤ 1.00	≤ 0.020	≤ 0.010	19.0 - 21.0	16.0 - 18.0	6.0 - 8.0	-