

## THÀNH PHẦN HÓA HỌC TIÊU CHUẨN MỸ - ASTM

Mác thép		C	Si	Mn	P ≤	S ≤	Cr	Ni	Mo	Thành phần khác
ASTM	UNS									
201	S20100	≤0.15	≤ 1.00	5.50 - 7.50	0.060	0.030	16.0 - 18.0	3.50 - 5.50	-	N ≤ 0.25
202	S20200	≤0.15	≤ 1.00	7.50 - 10.00	0.060	0.030	17.0 - 19.0	4.00 - 6.00	-	N ≤ 0.25
205	S20500	0.12 - 0.25	≤ 1.00	14.0 - 15.0	0.060	0.030	16.5 - 18.0	1.00 - 1.75	-	N 0.32 - 0.40
301	S30100	≤0.15	≤ 1.00	≤ 2.00	0.045	0.030	17.0 - 19.0	6.00 - 8.00	-	-
304	S30400	≤0.08	≤ 1.00	≤ 2.00	0.450	0.030	18.0 - 20.0	8.000 - 10.50	-	-
304Cu	S30430	≤0.08	≤ 0.75	≤ 2.00	0.450	0.030	18.0 - 20.0	8.00 - 10.00	-	Cu 3.00 - 4.00
304H	S30409	0.04 - 0.10	≤ 1.00	≤ 2.00	0.450	0.030	18.0 - 20.0	8.00 - 11.00	-	-
304L	S30403	≤0.03	≤ 1.00	≤ 2.00	0.450	0.030	18.0 - 19.0	8.00 - 12.00	-	-
-	S30415	0.04 - 0.05	1.00 - 2.00	≤ 0.80	0.045	0.030	18.0 - 20.0	9.00 - 10.00	-	N 0.12 - 0.18
-	S30424	≤0.08	≤0.75	≤ 2.00	0.045	0.030	18.0 - 20.0	12.00 - 15.00	-	B 1.00 - 1.25
304HN	S30452	≤0.08	≤1.00	≤ 2.00	0.045	0.030	18.0 - 20.0	8.00 - 10.50	-	N 0.10
304LN	S30453	≤0.03	≤1.00	≤ 2.00	0.045	0.030	18.0 - 20.0	8.00 - 12.0	-	N 0.16 - 0.30
304N	S30451	≤0.08	≤1.00	≤ 2.00	0.045	0.030	18.0 - 20.0	8.00 - 10.50	-	N 0.10 - 0.16
304S	-	≤0.01	≤1.00	≤ 2.00	0.025	0.200	17.0 - 19.0	8.00 - 10.0	-	N 0.10 - 0.16
305	S30500	≤0.12	≤1.00	≤ 2.00	0.045	0.030	17.0 - 19.0	10.5 - 13.0	-	-
305L	S30503	≤0.08	≤1.00	≤ 2.00	0.045	0.030	17.0 - 19.0	10.5 - 13.0	-	-
306	-	≤0.08	≤1.00	≤ 2.00	0.045	0.030	18.0 - 20.0	9.00 - 11.0	-	-
-	S30600	≤0.018	3.70 - 4.30	≤ 2.00	0.020	0.020	17.0 - 18.5	14.0 - 15.0	< 0.2	-
308	S30800	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	19.0 - 21.0	10.0 - 12.0	-	-
308L	S30803	≤0.025	≤ 0.04	≤ 1.75	0.045	0.030	19.0 - 21.0	8.00 - 12.0	-	-
309	S30900	≤0.020	≤ 1.00	≤ 2.00	0.045	0.030	22.0 - 24.0	12.0 - 15.0	-	-
309S	S30908	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	22.0 - 24.0	12.0 - 15.0	-	-
310	S31000	≤0.25	≤ 1.50	≤ 2.00	0.045	0.030	24.0 - 26.0	19.0 - 22.0	-	-
310S	S31008	≤0.08	≤ 1.50	≤ 2.00	0.045	0.030	24.0 - 26.0	19.0 - 22.0	-	-
310H	S31009	0.04 - 0.10	≤1.50	≤ 2.00	0.045	0.030	24.0 - 26.0	19.0 - 22.0	-	-
314	S31400	≤0.25	1.50 - 3.00	≤ 2.00	0.045	0.030	23.0 - 26.0	19.0 - 22.0	-	-
-	-	≤0.15	≤1.00	≤ 2.00	0.045	0.030	17.0 - 19.0	7.00 - 9.50	1.00 - 1.50	Cu 1.00 - 1.50
316	S31600	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00	-
316F	S31620	≤0.08	≤1 1.00	≤ 2.00	0.020	≥ 0.10	17.0 - 19.0	12.0 - 14.0	1.75 - 2.50	-
316H	S31609	0.04 - 0.10	≤ 1.00	≤ 2.00	0.040	0.030	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00	-
316L	S31603	≤0.03	≤ 1.00	≤ 2.00	0.045	0.030	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00	-
316LN	S31653	≤0.03	≤ 1.00	≤ 2.00	0.045	0.030	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00	-
316N	S31651	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00	N 0.10 - 0.16
316Ti	S31635	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00	N 0.10 - 0.16
317	S31700	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	18.0 - 20.0	11.0 - 15.0	3.00 - 4.00	-
317L	S31703	≤0.03	≤ 1.00	≤ 2.00	0.045	0.030	18.0 - 20.0	11.0 - 15.0	3.00 - 4.00	-
321	S32100	≤0.08	≤ 1.00	≤ 2.00	0.045	0.030	17.0 - 19.0	9.00 - 12.0	-	Ti ≥ 5 x C
430	S43000	≤0.12	≤ 1.00	≤ 1.00	0.040	0.030	16.0 - 18.0	-	-	-
430F	S43020	≤0.12	≤ 1.00	≤ 1.25	0.060	0.150	16.0 - 18.0	-	≤ 0.60	-
403	S40300	≤0.15	≤ 0.50	≤ 1.00	0.040	0.030	11.5 - 13.0	-	-	-
410	S41000	≤0.15	≤ 1.00	≤ 1.00	0.040	0.030	11.5 - 13.5	-	-	-
410S	S41008	≤0.06	≤ 1.00	≤ 1.00	0.040	0.030	11.5 - 13.5	≤ 0.60	-	-
420	S42000	≥0.15	≤ 1.00	≤ 1.00	0.040	0.030	12.0 - 14.0	-	-	-
420F	S42020	≥0.15	≤ 1.00	≤ 1.25	0.060	≥ 0.150	12.0 - 14.0	-	≤ 0.60	-
630	S63000	≥ 0.07	≤ 1.00	≤ 1.00	0.040	0.030	15.0 - 17.5	3.00 - 5.00	-	Cu 3.00 - 5.00 Nb 0.15 - 0.45
631	S63100	≥ 0.09	≤ 1.00	≤ 1.00	0.040	0.030	16.0 - 18.0	6.50 - 7.50	-	Al 0.75 - 1.50

\* Ghi chú: Thành phần còn lại là Fe