

## Tipos de aceros inoxidables

**Composición Química (%) de los Aceros Inoxidable Austeníticos y Aleaciones de Níquel**

GRADO	304	304L	316	316L	317	317L	321	400	825	625	C-276	DUPLEX 2205
Designación UNS	S30400	S30403	S31600	S31603	S31700	S31703	S32100	N04400	N08825	N06625	N10276	S31803
<b>CARBONO (C) max.</b>	0.08	0.035*	0.08	0.035*	0.08	0.035*	0.08	0.30	0.05	0.10	0.02	0.03
<b>MANGANESO (Mn) max.</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	0.50	1.00	2.00
<b>FOSFORO (P) max.</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.04	----	----	0.015	0.04	0.03
<b>AZUFRE (S) max.</b>	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.024	0.03	0.015	0.03	0.02
<b>SILICIO (Si) max.</b>	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.50	0.50	0.50	0.08	1.00
<b>CROMO (Cr) max.</b>	18.0 a 20.0	18.0 a 20.0	16.0 a 18.0	16.0 a 18.0	18.0 a 20.0	18.0 a 20.0	17.0 a 20.0	----	19.5 a 23.5	20.0 a 23.0	14.5 a 16.5	21.0 a 23.0
<b>NIQUEL (Ni)</b>	8.0 a 11.0	8.0 a 13.0	10.0 a 14.0	10.0 a 15.0	11.0 a 14.0	11.0 a 15.0	9.0 a 13.0	63.0 a 70.0	38.0 a 46.0	Balance	Balance	4.5 a 6.5
<b>MOLIBDENO (Mo)</b>	----	----	2.0 a 3.0	2.0 a 3.0	3.0 a 4.0	3.0 a 4.0	----	----	2.5 a 3.5	8.0 a 10.0	15.0 a 17.0	2.5 a 3.5
<b>OTROS ELEMENTOS</b>	----	----	----	----	----	----	Ti = 5xC min. y 0.70 max.	Cu=Bal. Fe = 2.50 max.	Fe=Bal. Cu = 1.5 a 3.0 Al = 0.2 max. Ti = 0.6 a 1.2	Fe = 5.0 max. Al = 0.40 max. Ti = 0.40 max. Cb+Ta = 3.15 a 4.15 Co = 1.0 max.	Co = 2.50 max. W = 3.00 a 4.50 Fe = 4.00 a 7.00 V = 0.35 max.	N = 0.08 a 0.20

\* Se acepta un contenido máximo de carbono del 0.04% para tubos trefilados.