

STAINLESS STEEL AISI 304

Dati Tecnici / Technical Data

Material quality

X5CrNi18-10 AISI 304 Austenic

Standard: EN 10088-3: 2005

Chemical composition

C% Max	Si% Max	Mn% Max	P% Max	S% Max	Cr%	N% Max	Ni%
0,07	1,00	2,00	0,045	0,030	17,5-19,5	0,11	8,0-10,5
±0,01	±0,05	±0,04	±0,005	±0,005	±0,20	±0,01	±0,10

Temperatures in C°

Melting temperatures	Hot deformation	Solubilization	Stabilization	Hardening	Welding
1400-1420	1180-950	1000-1120 water	900 air	Increasesable wire drawing	Preheating not required Slow cooling

Controlled atmosphere

Mechanical properties

Laminated EN 10088-3: 2005 - longitudinal tensile and resilience test long./tang. +20 C°

Section mm	R	Rp 0,2	A%	A%	Kv+20°C	Kv+20°C	HB a)
More than So long as	N/mm ²	N/mm ² min	min L	min T	J min L	J min T	Max
160	500-700	190	45	-	100	-	215 solubized
160	250	500-700	190	-	35	60	215 solubized

a) Only for information