



Stainless Steel X5CrNi18-10 (EN 1.4301)

X5CrNi18-10 stainless steel is an Austenitic corrosion resistant stainless steel. The EN number is 1.4301

EN 10088-3 : Stainless steels

X5CrNi18-10 is same as casting stainless steel GX5CrNi19-10 defined in standard EN 10213 and EN 10283 and ISO 11972, the EN number is 1.4308.

EN 10213: 2007 Steel castings for pressure purposes

EN 10283: 2010 Corrosion resistant steel castings

ISO 11972:2015 specifies cast steels for general corrosion-resistant applications.

X5CrNi18-10 (EN 1.4301) Similar grade:

ASTM A743 CF8, ASTM A351 CF8, SS304

GX2CrNiMoN22-5-3Chemical requirements and Mechanical Property

Standard	EN 10213	EN 10283	ISO 11972	EN 10088-3
Grade	GX5CrNi19-10	GX5CrNi19-10	GX5CrNi19-10	X5CrNi18-10
EN number	1.4308	1.4308	1.4308	1.4301
C max	0.07	0.07	0.07	0.07
Si max	1.50	1.50	1.5	1.00
Mn max	1.50	1.50	1.5	2.00
P max	0.04	0.04	0.04	0.045
S max	0.03	0.03	0.03	0.030
Cr	18.0-20.0	18.0-20.0	18.0-20.0	17.0-19.50
Mo	-	-	-	-
Ni	8.0-11.0	8.0-11.0	8.0-11.0	8.0-10.5
Cu	0.50	-	-	-
N	-	-	-	-
Tensile Mpa, min	440-640		440	500-700
0.2% proof Mpa, min	-	175	175	190
1% proof Mpa, min	200	200	-	225
Elongation, %, min	30	30	30	Long 45 Tr 35
Impact Kv,J, min	60	60	60	Long 100 Tr 60
Thickness, mm	150	150	150	
Hardness, HB, max	-			215



X5CrNi18-10 (EN 1.4301) **Heat treatment process:**
Solution annealing + water quenching (+AT)
Heat to 1050-1150°C for sufficient time to heat casting uniformly to temperature and water quench



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