

304 / 1.4301

The stainless austenitic chromium-nickel steel 1.4301 has good corrosion resistance (especially in natural environmental media and during absence of significant chlorine and salt concentration and sea water) and weldability. Check applications with acids specifically. In welded condition 1.4301 is not resistance to intergranular corrosion.

Gehe zu +

Material Data Sheet

Material Designation	1.4301
AISI/SAE	304
EN Material Symbol	X5CrNi18-10
UNS	S 30400
ANFOR Z7CN 18-09	Z7CN 18-09
B.S.	304 S15 – 304 S31
Norm	EN 10088-3

Main fields of application of 1.4301

1.4301 is well to be polished and thermoformed. It is mainly used in chemical industry, petroleum, petrochemical and automotive industries.

Chemical composition of 1.4301

C	Si	Mn	P	S	Cr	Ni	N
≤ %	≤ %	≤ %	≤ %	≤ %	%	%	≤ %
0,07	1,0	2,0	0,045	0,015	17,0-19,5	8,0-10,5	0,11

Characteristics of 1.4301

Temperature Range	Density	Hardness (HB)
Since susceptibility to precipitation of chromium carbides, operating temperature of 450 ° C - 850 ° C to be carefully considered (DIN EN 10088-3)	7,9 kg/dm ³	160-190

Filler metal (for welding with 1.4301)

1.4316 (308L), 1.4302, 1.4551

Delivery program

Sheets / Plates mm

0.5 - 50

Coils mm

0.5 - 3

Precision strip mm

0.2 - 0.5

Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

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