

Data sheet and application

DIM L-1.4301[©]

Material no.: 1.4301	
DIN 8556:	SG X 5 CrNi 18 10
EN 12072:	G 18 10 L/W 18 10 L
EN 14343-A:	G/W 18 10
ASTM/AISI:	ER 304
AFNOR:	Z 4 CN 19-10 FF / Z 6 CN 18-09
B.S.:	302 S17
UNI:	X 5 CrNi 18-10
JIS:	SUS304

Characteristics

DIM L-1.4301 is a stainless Cr-Ni welding wire for joining and surfacing in chemical apparatus and equipment construction for operating temperatures from -196°C to 400°C. Also for connection welding of any stainless steel (also different alloys) without the special requirements of the apparatus construction.

Basic materials material no.: 1.4303 / 06/08/10/11/12/19 / 1.4541 / 46/50/52

AISI 304 / 304L / 302/321/347

ASTM A 1576 Gr. C 9; A 320 Gr. B 8 C oder D

Chemical composition

C	Si	Mn	Cr	Ni	N	Fe	P	S
0,02	0,4	1,5	19	9	0,05	Remainder		

Certificate of batch upon request.

Mechanical properties of pure weld metal at room temperature

Yield strength Rp0.2 MPa	Tensile strength Rm MPa	Elongation A (L0=5d0) %	Impact energy KV J
400	600	35	100

Processing instructions

Protection gases according to ISO 14175

I1: Welding argon 100 %

M12: Argon 97,5 % / CO₂ 2,5 %

