

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.030	1.00	2.00	0.045	0.015
Cr %	Ni %	N ≤%		
17.5-19.5	8.00-10.5	0.11		

Description

1.4307 / AISI 304 L is an austenitic chromium-nickel stainless steel with a low carbon content.

Special Properties

1.4307 / AISI 304 L can replace the quality 1.4541 / AISI 321 and is equal resistant to intercrystalline corrosion. Better machinable due to the absence of titanium

Steel Grade

AISI	UNS	Material No.	EN Designation
304L	S30403	1.4307	X2CrNi18-9

Mechanical Properties 20 C

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
215	175	500-700	45/35	200

Physical Properties 20°C

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
7.93	500	15	0.73

Suitable Welding Filler Materials

1.4307 / 1.4316 / 1.4551

Application

Foodstuff, chemical and pulp paper equipment, vessels

Available Forms for AISI304L

Sheets/Coils	Bars	Tubes / Pipes	Wires	Fittings	Forged / cast parts	Finished part (drawing)
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