

Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4306	X2CrNi19-11	304 L	S30403

Description

1.4306 / AISI 304 L is an austenitic chromium-nickel stainless steel with a low carbon content.

Special properties

1.4306 is essentially a more highly alloyed version of 1.4307. Due to the slightly higher chromium and notably higher nickel content, 1.4306 is more corrosion resistant than 1.4307.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.030	1.00	2.00	0.045	0.015
Cr %	Ni %	N %		
18.0-20.0	10.0-12.0	≤ 0.11		

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	180	460-680	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
7.9	500	15	0.73

Suitable welding filler materials

1.4316; 1.4551

Application

Chemical and petrochemical industry, oil industry, equipment for foodstuff industry

Available forms for 1.4306 / AISI 304 L

Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
						