

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.07	1.00	2.00	0.045	0.015
Cr %	Ni %	N ≤%		
17.5-19.5	8.00-10.5	0.11		

Description

AISI 304 is the standard austenitic chromium-nickel stainless steel.

Special Properties

High corrosion resistance. Easy formability. Not resistant to intergranular corrosion

Steel Grade

AISI	UNS	Material No.	EN Designation
304	S30400	1.4301	X5CrNi18-10

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	190	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

1.4302 / 1.4316 / 1.4551 / 1.4301

Application

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

Available Forms for AISI304

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