

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.08	1.00	2.00	0.045	0.015
Cr %	Ni %	Ti ≤%		
17.0-19.0	9.00-12.0	10xC		

Description

1.4550 / AISI 347 is an austenitic chromium-nickel stainless steel with titanium and niobium addition.

Special Properties

Good resistance to intergranular corrosion.

Steel Grade

AISI	UNS	Material No.	EN Designation
347	S34700	1.4550	X6CrNiNb18-10

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
230	205	500-700	40/30	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 / 1.4551/1.4576

Application

Foodstuff industry, chemical industry

Available Forms for AISI347

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

