

### Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4961	X8CrNiNb16-13	347H	S34709

### Description

AISI 347 H / 1.4961 is an austenitic chromium-nickel stainless steel with titanium addition.

### Special properties

Good resistance to intergranular corrosion. Very good resistance to higher temperature.

### Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.04-0.10	0.30-0.60	1.50	0.035	0.015
Cr %	Ni %	Ti ≤ %		
15.0-17.0	12.0-14.0	10 x C		

### Mechanical Properties 20°C

0.2% Yield strength $R_p \geq$ N/mm <sup>2</sup>	Tensile strength $R_m$ N/mm <sup>2</sup>	Elongation $A_5 \geq$ %	Resistant on air up to °C	Modulus of elasticity kN/mm <sup>2</sup>
205	510-690	35	750	200

### Physical Properties 20°C

Density g/cm <sup>3</sup>	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity $\Omega$ mm <sup>2</sup> /m
7.98	450	16	0.78

### Application

Components for thermal power plants

### Available forms for 1.4961 / AISI 347 H

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