

### Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4941	X6CrNiTiB18-10	321 H	S32109

### Description

AISI 321 H / 1.4941 is an austenitic chromium-nickel-stainless steel, stabilized with titanium.

### Special properties

Good corrosion resistance to low content of hydrochloride and organic acids. Very good resistance to raised temperature.

### Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.04-0.08	1.00	2.00	0.035	0.015
Cr %	Ni %	Ti ≤ %	B %	
17.0-19.0	9.00-12.0	5 x C	0.0015-0.0050	

### Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R <sub>p</sub> ≥ N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> ≥ %	Modulus of elasticity kN/mm <sup>2</sup>
335	195	490-680	35	200

### Physical Properties 20°C

Density g/cm <sup>3</sup>	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm <sup>2</sup> /m
7.93	450	17	0.71

### Application

Pressure vessels and steam boilers

### Available forms for 1.4941 / AISI 321 H

