

## Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.04-0.08	1.00	2.00	0.035	0.015
Cr %	Ni %	N ≤%		
17.0-19.0	8.00-11.0	0.11		

## Description

AISI 304 H / 1.4948 is an austenitic stainless steel.

## Special Properties

Excellent heat resistance in raised temperatures.

## Steel Grade

AISI	UNS	Material No.	EN Designation
304H	S30409	1.4948	X6CrNi18-10

## Mechanical Properties 20°C

0.2% Yield strength $R_p$ ≥ N/mm <sup>2</sup>	Tensile strength $R_m$ N/mm <sup>2</sup>	Elongation $A_5$ ≥ %	Modulus of elasticity kN/mm <sup>2</sup>
230	500-700	40	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

Pipeline construction, nuclear technology

## Available Forms for AISI304H

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