

## Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.04-0.08	0.75	2.00	0.035	0.015
Cr %	Mo %	Ni %	N ≤%	B ≤%
16.0-18.0	2.00-2.50	12.0-14.0	0.10	0.0015-0.0050

## Description

AISI 316 H / 1.4919 is an austenitic chromium-nickel-molybdenum stainless steel in addition with nitrogen and boron.

## Special Properties

High-temperature-strength quality. Very good resistance to raised temperature.

## Steel Grade

AISI	UNS	Material No.	EN Designation
316H	S31609	1.4919	X6CrNiMoB17-12-2

## Mechanical Properties 20 C

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>
205	490-690	35	193

## 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
7.98	450	16	0.77

## Application

Energy plants, nuclear plants

## Available Forms for AISI316H

Tubes / Pipes