

## AISI 304H

**Grade:** AISI 304H

**Type:** Austenitic stainless steel delivered in the solution annealed condition

H grade (high carbon variant typically used at higher temperatures). UNS S30409 OR 1.4948

Nominal Composition	
Element	Weight %
Carbon	0.04-0.08 max
Silicon	1.0 max
Manganese	2.0 max
Phosphorus	0.040 max
Sulphur	0.020 max
Molybdenum	2.0 – 3.0 max
Chromium	17-19 max
Nickel	8.0 – 11 max
Nitrogen	0.10 max

### Grade Selection

Where high strength is also required at increased temperatures above 500 °C up to 800 °C maximum, 304H is preferred for use. This material will retain aqueous corrosion resistance. 304H is used for high or low temperature applications and for fasteners.

### Mechanical Properties Condition

Solution treatment or annealing at 1010-1120°C.

Property	Values
Ultimate Tensile Strength *	500 N/mm <sup>2</sup> min
0.2 % Yield Strength *	185 N/mm <sup>2</sup> min
Elongation	40 % min

### Notes:

304H is not recommended for welding applications.