Type 304H Stainless Steel

1.Stainless Steel Plate

Type 304 | Type 304L | Type 304H | Type 316 | Type 316L | Type 316H | Type 321 | Type 347

Type 410 | UNS S32205 Duplex | UNS S32750 SuperDuplex | UNS S32760 SuperDuplex

2.Type 304H – a high carbon variant of Grade 304 which is ideal for user in elevated temperatures. Unlike 304L, Type 304H has a higher carbon content making the steel more suitable for use in applications where elevated temperatures are present. It is an austenitic chromium-nickel steel alloy and the greater carbon content delivers an increased tensile and yield strength.

3.The material is recommended for use in ASME pressure vessels in working service above 525 °C due to the grade's heat resistant properties. Benefits of using 304H Stainless Steel

4.Higher carbon content gives the material greater heat resistant qualities

Higher tensile yield strength

Greater short and long term creep strength

304H alloy is commonly found in the oil refining, gas and chemical industry and is used in industrial boilers, pressure vessels, heat exchangers, pipelines and condensers. The material is also used throughout the power generation industry.

5.Chemical Composition

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UNS No | Grade | C | Si | Mn | P | S | Cr | Mo | Ni | N |
| S30409 | 304H | 0.04/0.10 | 0.75 | 2.00 | 0.045 | 0.030 | 18.00/20.00 | – | 8.00/10.50 | – |

6.Mechanical Properties

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| UNS No | Grade | Proof Stress 0.2% (MPa) | Tensile Strength (MPa) | Elongation A5(%) | Hardness Max | |
| HB | HRB |
| S30409 | 304H | 205 | 515 | 40 | 201 | 92 |

7.We stock and globally supply Grade 304H stainless steel to fabricators who service these industries. To obtain further information or receive a competitive quotation for 304H alloy, please contact us.