Type 316H 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

2.316H, with higher carbon content, displays excellent resistance to increased working temperatures. Type 316H is a higher carbon variant of 316 making the steel more suitable for use in applications where elevated temperatures are present. Stabilised Grade 316Ti offers similar qualities.

3.The increased carbon content delivers a greater tensile and yield strength. The austenitic structure of the material also gives this grade excellent toughness, even down to cryogenic temperatures.

4.The steel lends itself well for use in the petrochemical, gas and chemical industry. Masteel supply Grade 316H to a variety of customers including fabricators of pressure vessels, industrial boilers and heat exchangers.

5.Benefits of using Type 316H Stainless Steel

Increased carbon content heat resistant qualities

Greater tensile yield strength

Greater short and long term creep strength

6.Chemical Composition

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UNS No | Grade | C | Si | Mn | P | S | Cr | Mo | Ni | N |
| S31609 | 316H | 0.04/0.10 | 0.75 | 2.00 | 0.045 | 0.030 | 16.00/18.00 | 2.00/3.00 | 10.00/14.00 | –– |

7.Mechanical Properties

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| UNS No | Grade | Proof Stress 0.2% (MPa) | Tensile Strength (MPa) | Elongation A5(%) | Hardness Max | |
| HB | HRB |
| S31609 | 316H | 205 | 515 | 40 | 217 | 95 |

8.For more information about 316H stainless steel and the services that We can offer, please contact us.