**JIS G4305 631, SUS 631, SS 631 Plate, TP631**

Gangsteel Stainless Factory is the large manufacturer to supply JIS G4305 631, SUS631,SS 631 Stainless plate,SUS 631 ASTM, ASME, JIS , EN, UNS Stainless plate and sheet. We have about 3000tons each thickness and size stainless plates and large warehouse. If you have any requirement for stainless plate in competitive price and faster delivery time, please contact us.

**Tags:** JIS G4305 631, SUS631, SS 631 Stainless plate, JIS G4305 SUS 631,TP 631

**What forms of JIS G4305 SUS631 Stainless Steel are available at UNITEDSTEEL?**

* Stainless steel Plate & Sheet & Strip & Coil

Supply Dimensions: Thickness: 0.8mm to 100mm

Width: 500mm to 2500mm +

Length: 1000mm--12000mm

Surface Finish: 2B, BA, No.1, etc.

* Pipe & Tube
* Stainless Section Bar
* Weld Wire

**JIS G4305 SUS631 Chemical Composition, %**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **C** | **Si** | **Mn** | **P** | **S** |
| 0.09 Max | 1.00 Max | 1.00 Max | 0.040 Max | 0.03 Max |
| **Ni** | **Cr** | **Mo** | **Cu** | **Other** |
| 6.50-7.75 | 16.00-18.00 |  |  | AL 0.75-1.50 |

**What are the characteristics of JIS G4305 SUS631 Stainless**

* Oxidation resistance to 2000°F
* Moderate strength at high temperature
* Resistance to hot corrosion
* Strength and toughness at cryogenic temperatures

**Typical Applications for JIS G4305 SUS631 Stainless**

* Kilns
* Heat Exchangers
* Radiant Tubes
* Muffles, retorts, annealing covers
* Tube hangers for petroleum refining and steam boilers
* Coal gasified internal components
* Staggers
* Furnace parts, conveyor belts, rollers, oven linings, fans
* Food processing equipment
* Cryogenic structures

**Fabrication with Stainless JIS G4305 SUS631**

Type JIS G4305 631 is readily fabricated by standard commercial procedures. In comparison to carbon steel, stainless steels are tougher and tend to work harden rapidly.

Type JIS G4305 631 can be welded using all of the common welding processes.

**JIS G4305 SUS631 Mechanical Properties**Representative Tensile Properties

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Type** | **0.2% Yield Strength, MPa** | **Ultimate Tensile Strength,MPa** | **Min Elongation %** | | **Hardness** | |
| **HBW** | **HRB** |
| SUS631 | S | ≤380 | ≤1030 | ≥20 | | ≤192 | ≤92 |
| RH950 | ≥1030 | ≥1230 | T≤3.0mm |  |  |  |
| T＞3.0mm | ≥4 |
| TH1050 | ≥960 | ≥1140 | T≤3.0mm | ≥3 |  |  |
| T＞3.0mm | ≥5 |

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**Other related Stainless Plate For JIS G4305 SUS631**