GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-403 WP321H

## Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASME SA-403 WP321H Wrought Austenitic Stainless Steel Piping Fittings**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Steel and Pipe**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.040 - 0.100 |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 1.000 max. |
| Nickel | Ni % | 9.000 - 12.000 |
| Chromium | Cr % | 17.000 - 19.000 |
| Titanium | Ti % | 0.008 - 0.700 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Solution Annealing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 515 min. |
| Yield Strength in Mpa | 205 min. |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| J 405 321H | SAE | USA | Steel |
| D 3576 STS 321HTP | KS | Korea | Steel and Pipe |
| G 4319 SUS 321 HFB | JIS | Japan | Steel and Forging |
| A 249 TP321H | ASTM | USA | Steel and Tubing |
| A 312 TP321H | ASTM | USA | Steel and Pipe |
| SA-249 Grade TP 321H | ASME | USA | Steel and Tubing |
| SA-312 Grade TP 321H | ASME | USA | Steel and Pipe |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com**

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