

Standard Available in forms :

- ASTM A182/ ASME SA182 Stainless Steel Pipe Fittings
- ASTM A213 / ASME SA213 Seamless Stainless Steel Pipes
- ASTM A240/ ASME SA240 Stainless Steels Sheets / Plates
- ASTM A249/ ASME SA249 Stainless Steel Welded Tubes
- ASTM A269/ ASME SA269 Stainless Steel Tubes
- ASTM A270/ ASME SA270 Stainless Steel Sanitary Tubes
- ASTM A312/ ASME SA312 Stainless Steel Pipes
- ASTM A403/ ASME SA403 Stainless Steel Pipe Fittings
- ASTM A554/ ASME SA554 Stainless Steel Welded Tubes
- ASTM A731/ ASME SA731 Stainless Steel Pipes
- ASTM A789/ ASME SA789 Stainless Steel Tubes
- ASTM A790/ ASME SA790 Stainless Steel Pipes
- ASTM A791/ ASME SA791 Stainless Steel Tubes

Products Available in forms :

- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Plates
- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Pipes
- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Round Bar
- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Tube
- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Flanges
- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Wire
- SS 321, Type 321, WNR 1.4541, UNS S32100, AISI 321 Fittings

Corrosion Resistance

- Equivalent to Grade 304 in the annealed condition, and superior if a weldment in these grades has not been post-weld annealed or if the application involves service in the 425-900°C range.
- Subject to pitting and crevice corrosion in warm chloride environments, and to stress corrosion cracking above about 60°C.
- Considered resistant to potable water with up to about 200mg/L chlorides at ambient temperatures, reducing to about 150mg/L at 60°C.

Heat Resistance

- Good oxidation resistance in intermittent service to 900°C and in continuous service to 925°C.
- These grades perform well in the 425-900°C range, and particularly where subsequent aqueous corrosive conditions are present.
- 321H has higher hot strength, and is particularly suitable for high temperature structural applications.

Heat Treatment

- Solution Treatment (Annealing) - heat to 950-1120°C and cool rapidly for maximum corrosion resistance.
- Stabilising - heat to 870-900°C for 1 hour per 25mm of thickness and air cool. Stabilisation is recommended for most severe service conditions (above 425°C) and particularly for material annealed at the upper side of the annealing temperature range.
- Stress Relief - Heat to 700°C for 1 to 2 hours and air cool.
- These grades cannot be hardened by thermal treatment.

Welding

- Excellent weldability by all standard fusion methods, both with and without filler metals.
- AS 1554.6 pre-qualifies welding of 321 and 347 with Grade 347 rods or electrodes; high silicon version of 347 is also pre-qualified for welding of 321.

Applications

Typical applications include:

- Aircraft exhaust manifolds
- Expansion joints
- Bellows
- Furnace parts
- Heating element tubing
- Heat Exchangers
- Woven or welded screens for high temperature mineral processing
- Spiral Welded tube for burner pipes and flues



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