

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 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Plates
- SS 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Pipes
- SS 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Round Bar
- SS 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Tube
- SS 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Flanges
- SS 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Wire
- SS 309, Type 309, WNR 1.4828, UNS S30900, AISI 309 Fittings

Fabrication and Heat Treatment

Machinability

- Grade 309 stainless steel can be machined similar to that of 304 stainless steel.

Welding

- Grade 309 stainless steel can be welded using fusion or resistance welding methods.
- Oxyacetylene welding method is not preferred for welding this alloy.

Hot Working

- Grade 309 stainless steel is hot worked at 1177°C [2150°F] followed by reheating at 982°C [1800°F].
- It can be then quenched rapidly.
- Post-work annealing can be done to restore its corrosion resistance property.

Cold Working

- Grade 309 stainless steel can be headed, upset, drawn, and stamped even though it has high work hardening rate.

Annealing

- Annealing is performed after cold working in order to reduce internal stress.
- Grade 309 stainless steel is annealed at 1038-1121°C [1900-2050°F] followed by quenching in water.

Hardening

- Grade 309 stainless steel does not react to heat treatment.
- Strength and hardness of this alloy can be increased by cold working.

Applications

- Boiler baffles
- Furnace components
- Oven linings
- Fire box sheets
- Other high temperature containers.



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