



## 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 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Plates
- SS 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Pipes
- SS 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Round Bar
- SS 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Tube
- SS 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Flanges
- SS 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Wire
- SS 305, Type 305, WNR 1.4303, UNS S30500, AISI 305 Fittings

## Fabrication and Heat Treatment

### Machinability

- Grade 305 stainless steel can be machined through slow speeds and heavy feeds.

### Welding

- Grade 305 stainless steel can be welded using most of the resistance and fusion methods. Oxyacetylene welding is not preferred for this steel.
- Hot working of grade 305 stainless steel can be done at 1149 to 1260°C [2100 to 2300°F]. This process is followed by rapid cooling to obtain maximum corrosion resistance.

### Cold Working

- Grade 305 stainless steel can be drawn, spun, headed and blanked due to its low work hardening rate.

### Annealing

- Grade 305 stainless steel can be annealed at temperature ranging from 1010 to 1121°C [1850 to 2050°F] followed by rapid cooling.

### Hardening

- Grade 305 stainless steel is unresponsive to heat treatment. The hardness and strength of the steel can be increased through cold working.

## Applications

- Spun or deep drawn eyelets
- Shells
- Barrels
- Cold headed rivets or screws



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