



### 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 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Plates
- SS 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Pipes
- SS 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Round Bar
- SS 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Tube
- SS 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Flanges
- SS 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Wire
- SS 430F, Type 430F, WNR 1.4104, UNS S43020, AISI 430F Fittings

## Fabrication and Heat Treatment Machinability

- Machining of grade 430F stainless steel can be done with good feeds and speeds.

## Welding

- Grade 430F stainless steel cannot be welded due to its high sulfur content. If necessary, welding can be performed using low heat settings and AWS E/ER430 filler metal.

## Hot Working

- Grade 430F stainless steel can be hot worked by initially bringing the material to 816°C [1500°F] and then slowly to 1066 to 1149°C [1950 to 2100°F].

## Cold Working

- Grade 430F stainless steel can withstand only moderate cold forming.

## Annealing

- Grade 430F stainless steel can be annealed at temperature ranging from 677 to 760°C [1250 to 1400°F] and then air cooled.

## Hardening

- Grade 430F stainless steel is unresponsive to heat treatment.

## Applications

The following are the major applications of grade 430F stainless steel.

- Fasteners
- Gears
- Shafts
- Pinions



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