

QUALITY	AT ROOM TEMPERATURE	AT HIGH TEMPERATURE	USAGE LIMIT	PRODUCTION	APPLICATION AREA
304	Durability is good against atmospheric corrosion, alkaline corrosion at humid environments and acid free chlorides. It is soft and can be processed at lower temperatures.	It is resist to high temperature oxidation up to 900°C and has very good mechanical and frictional durability.	Causes internal structure stress corrosion cracking especially in oxidized and hot humid chlorides environments between 600-800°C .	Weldable but internal structure could be corruptible. Bendable and extendable.	Used in boilers, pipes and heat converters in chemistry and petrochemistry. Household appliances , industrial kitchens and automotive industry.
304L	It is the form of 304 with low carbon level. This increases the resistance to internal structure changes. Especially nitric acid resistance is good.	It is resist to high temperature oxidation up to 900°C. Friction resistance can not be guaranteed over 500°C .	Good resistance to tensile corrosion cracking.	Weldable, bendable and extendable.	In chemistry, petrochemistry and food industries, pipes and heat converters, dairy equipments, paper industry, nitric acid units, soap and leather industries.
321	General corrosion properties similar to 304 quality. Sensitivity to internal structure corrosion has been removed by titanium stabilization. Soft at all temperatures.	It is resist to high temperature oxidation up to 900°C and has very good mechanical and frictional durability.	Susceptible to stress corrosion cracking.	Weldable, bendable and extendable.	Used in boilers and super heaters in chemistry and petrochemistry.
316	The presence of molybdenum in moist and chloridal environment responds better at any temperature than rolled 304 grade	Resistant to oxidation at temperatures up to 900°C. Mechanical property and tensile strength is good.	Susceptible to stress corrosion cracking and internal corrosion.	Tig and mig welding can be applied. Good bendability and extendability.	Used in heat resistant exchangers, steam boilers, fruit juice , liqueur and meat industries.
316L	It is the composition of 316 with low carbon level. Insensitive to internal corrosion. Soft at all temperatures.	Resistant to high temperature oxidation up to 900°C. Friction ability is low over 500°C	Susceptible to stress corrosion cracking as 316. Mechanical properties are less than 316 quality.	Weldable Bendable and extendable.	In chemistry, petrochemistry and food industries, pipes and heat converters, dairy equipments, silk industry, nuclear engineering