

PRODUCT CHARACTERISTICS & APPLICATIONS

Series		Grades	Characteristics	Applications
Austenitic Series	Basic	SUS 304	Widely used, corrosion resistant, heat resistant, good mechanical properties in low temperature, no heat treatment hardening, weak magnetism.	Home kitchen utensils, chemical industry, medical apparatus, building material and decoration.
		SUS304L	Better intergranular corrosion resistance, can be heat treated after welding.	Petroleum equipment, chemical equipment, building material, heat resistant parts and the parts that are difficult to heat treatment.
	High Tensile Strength	SUS301	Low content of Cr and Ni than 304 grade, It's strength, hardness and magnetism can be increased by cold working.	Trains, aircrafts, vehicles, springs.
		SUS301L*	Improving, intergranular corrosion resistance by decreasing content and increasing Ni content from 301 grade. Improving, intergranular corrosion resistance by decreasing content and increasing Ni content from 301 grade.	Frame and crust parts of train.
	Deep Drawing	SUS304Cu	Better formability than 304 grade by addition of cu, suitable for deep drawing.	Domestic appliances.
		SUS304Ni8.5	Better formability than 304 grade by increasing Ni content, suitable for deep drawing.	Domestic appliances.
		SUS304Ni9	Better formability than 304 grade by increasing Ni content, suitable for deep drawing.	Domestic appliances.
	High Corrosion Resistance	SUS316*	Better formability than 304 grade in sea water and other corrosive solutions, higher heat-resistance, good cold work hardening and performance, no magnetism.	Chemical industry, food processing equipments, coastal installations.
		SUS316L	Compare with SUS316, has better intergranular corrosion resistance and water heat-resistance, no magnetism.	Chemical industry, food processing equipments used in severe corrosive condition, coastal installations used.
		SUS321	Intergranular corrosion resistance, heat resistant, good formability and weldability, anti-oxidizing in high temperature.	Jet engine parts, heat exchanger, boiler cover, chemical devices.
Ferritic Series	Basic	SUS430	Typical ferritic, stainless steel grade, low thermal extensibility, good formability and antioxygenic property.	Heat-resistance utensils, combustion devices, domestic appliance, kitchen utensils category, building decorating material.
	Weldable and Corrosion Resistant	SUS409L	good formability and weldability, antioxygenic property in high temperature.	exhaust system of automobiles
		SUS436L*	good corrosion resistance, formability and weldability, corrosion resistant to condensates in exhaust piping of automobiles.	Automobiles exhaust piping, boiler.
		SUS444*	good corrosion resistance, formability and weldability, compare with 316L, has better stress corrosion resistance and spot corrosion resistance.	Water heater, water tank, automobile, exhaust piping.
Martensitic Series	Basic	SUS420J2*	High post-quenching strength, suitable for wearable parts.	Knife, pipe nozzles, valves, metal rules and cooking utensils.