

Simply Stainless Material Data Sheet

Grade SUS304 (used for all surfaces that food & liquid contact)

Stainless steel type 304 is the most used stainless steel around the world. It is an austenitic, corrosion resistant steel with excellent strength, toughness, fabrication characteristics and weldability

Typical Applications Include -

Brewing and dairy equipment, evaporators, drums, barrels, heat exchangers, hospital equipment, refrigeration parts, chemical and food processing, shop fittings, bench tops, kitchens, kitchen utensils, sinks, wash troughs, urinals, hand rails, dishwashers, clothes dryers, ovens, heating trays, air conditioning equipment, guttering and rain water goods, counters and display cabinets, hot and cold food bars, commercial oven hoods, beer barrels.

Chemical Composition –

		C (carbon)	Si (Silica)	Mn (Manganese)	P (Phosphorus)	S (Sulphur)	Ni (Nickel)	Cr (Chromium)	Ni (Nitrogen)
304	Max	0.08	0.75	2.00	0.045	0.030	10.5	20	0.10
	Typical	0.045	0.49	1.25	0.030	0.005	8.5	18.2	0.045

Chemical Composition Description –

Grade 304 contains 18% chromium, which makes it resistant to many corrosive environments. It is austenitic in structure because of the 8% nickel it contains. The very tough and ductile austenitic structure gives grade 304 excellent formability and fabrication characteristics.

Grade SUS201 (used for all surfaces that do not contact food & liquid)

Stainless steel type 201 is resistant to a wide variety of mild to moderately corrosive environments. Type 201 has proven to be entirely adequate for many applications where type 304 has been satisfactory and has been successfully substituted for type 304 in a variety of mild environments.

Typical Applications Include -

Cookware bodies, hose clamps, piston rings, washing machine baskets, transit cars, thermal window spacers, truck trailer posts, food processing, dishwashers, exterior cabinet casings,

Chemical Composition –

		C (carbon)	Si (Silica)	Mn (Manganese)	P (Phosphorus)	S (Sulphur)	Ni (Nickel)	Cr (Chromium)	Ni (Nitrogen)
201	Max	0.15	1.00	7.50	0.060	0.030	5.50	18	0.25
	Typical	0.10	0.80	5.50	0.030	0.010	4.00	18.2	0.015

Chemical Composition Description –

Types 201 is comparable to chromium - nickel types 301, 304, 304L in many respects, but they can provide some advantages over those grades in certain applications. Manganese and nitrogen additions are partial substitutes for nickel in type 201. Because it possesses a desirable combination of good mechanical properties and corrosion resistance properties, it has been used in a wide variety of consumer, food service and transportation applications.

No galvanised metal or grade 430 stainless is used anywhere in the production of Simply Stainless

