

## AISI 304, 304L Stainless Steel Sheet Plate

### What is 304/304l Material?

ASTM a240 type 304 Grade 304 is most popular and versatile austenitic stainless steel grade with excellent corrosion resistance, formability, deep drawability and weldability. [304L sheet plate](#) is lower carbon version of 304 for excellent intergranular corrosion resistance. So, 304L can be extensively used in welded condition and does not require any post weld heat treatment. 304H is high carbon variant of 304 grade with higher strength above 450°C. 304LN is a nitrogen-strengthened variant of 304L. By means of solid solution strengthening, nitrogen provides significantly higher yield and tensile strength than 304L without adversely affecting ductility, corrosion resistance or non-magnetic properties.

### SS 304 Sheet Plate Chemical Properties:

ASTM		%C	%Mn	%S	%P	%Si	%Ni	%Cr	%N
304	Min	--	--	--	--	--	8.0	17.5	--
	Max	0.07	2.00	0.030	0.045	0.75	10.5	19.5	0.10
304L	Min	--	--	--	--	--	8.0	17.5	--
	Max	0.030	2.00	0.030	0.045	0.75	12.0	19.5	0.10
304H	Min	0.04	--	--	--	--	8.0	18.0	--
	Max	0.10	2.00	0.030	0.045	0.75	10.5	20.0	--
304LN	Min	--	--	--	--	--	8.0	18.0	0.10
	Max	0.030	2.00	0.030	0.045	0.75	12.0	20.0	0.16

### SS 304 Sheet Plate Mechanical Properties:

Grade	Mechanical properties	UTS (MPa)	YS (MPa)	%EL	Hardness (HRB)
304	ASTM A240	≥ 515	≥ 205	≥ 40	≤ 92
304L	ASTM A240	≥ 485	≥ 170	≥ 40	≤ 92
304H	ASTM A240	≥ 515	≥ 205	≥ 40	≤ 92
304LN	ASTM A240	≥ 515	≥ 205	≥ 40	≤ 95

### 304 Stainless Steel Sheet Plate Physical Properties:

Modulus of elasticity GPa	Density Kg/m <sup>3</sup>	Electrical resistivity μΩm	Thermal conductivity W/m°C	Thermal Expansion Co-efficient μm/m /°C
195	7910	0.72	16.3	17.3

### Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

### Applications:

**304** -Transport, chemical, petrochemical and fertilizers industries, dairy, food processing, pharmaceutical industries, hospital equipment, cryogenic vessels, households as utensils & appliances , heat exchangers, machinery in paper, pulp, textile and beverage industries; architectural applications like panels, curtain walls, roofing etc.

**304H**-petroleum refineries, boilers, heat exchangers, condensers, pipelines, cooling towers, steam exhausts, and electric generation plants, also be found in fertilizer

and chemical plants

**304L**-Tanks and containers for a large variety of liquids and solids, Process equipment in the mining, chemical, cryogenic, food, dairy and pharmaceutical industries

**304LN**- Heat exchanger, Chemical industry, food industry, petroleum industry, fabrication industry, nuclear industry, Railroad cars, pressure vessel, flanges and valves

## Corrosion Resistance:

These grades exhibit excellent resistance to wide range of atmosphere and corrosive media like petroleum, food, pharmaceutical, textile etc.

For more details visit : [Stainless Steel 304 Sheets Plate Stockist](#)

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