

## AISI 316, 316L Stainless Steel Sheet Plate

### General Characteristics:

Austenitic stainless steel with Mo is typically ASTM a240 Type 316. Mo enhances high temperature strength, resistance to pitting and crevice corrosion in chloride conditions, and general corrosion resistance. For good intergranular corrosion resistance during welding, [SS 316L sheet plate](#) is a reduced carbon version of 316. 316Ti is a Ti-stabilized 316 that has exceptional intergranular corrosion resistance at high temperatures.

### SS 316 Sheet Plate Chemical Properties:

ASTM		%C	%Mn	%S	%P	%Si	%Ni	%Cr	%Ti	%Mo	%N
316	Min	--	--	--	--	--	10.0	16.0	--	2.00	--
	Max	0.08	2.00	0.030	0.045	0.75	14.0	18.0	--	3.00	0.10
316L	Min	--	--	--	--	--	10.0	16.0	--	2.00	--
	Max	0.030	2.00	0.030	0.045	0.75	14.0	18.0	--	3.00	0.10
316Ti	Min	0.04	--	--	--	--	10.0	16.0	5*(C+N)	2.00	--
	Max	0.10	2.00	0.030	0.045	0.75	14.0	18.0	0.70	3.00	0.10

### 316 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)
193	7980	0.72	16.3	15.9

## SS 316 Sheet Plate Mechanical Properties:

Grade	Mechanical properties	UTS (MPa)	YS (MPa)	%EL	Hardness (HRB)
316	ASTM A240	≥ 515	≥ 205	≥ 40	≤ 95
316L	ASTM A240	≥ 485	≥ 170	≥ 40	≤ 95
316Ti	ASTM A240	515	205	≥ 40	≤ 95

## Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

## Corrosion Resistance:

These grades demonstrate exceptional resistance to a variety of atmospheres and corrosive agents, including petroleum, food, pharmaceuticals, and textiles, and others.

## Applications:

**316**- Architectural trims, marine exteriors, pulp & paper processing equipment, food processing equipment, pharmaceuticals equipment, photographic equipment, textile finishing equipment, and equipment for chemical and food processing.

**316L**- Food processing, laboratory equipment, heat exchangers, mining screens, brewery equipment, coastal architectural panels, and chemical transportation containers.

**316Ti**- Chemical and petrochemical industry.

For more details visit: [Stainless Steel 316 Sheets Plate Stockist](#)

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