

## AISI 202 Stainless Steel Sheet Plate

### General Characteristics:

The ASTM A240 Type 200 Series stainless steels are not new; in fact, they have been around for quite some time. The extremely high Nickel price in recent years has, however, greatly increased demand in them because they contain significantly less nickel than 300 Series Austenitics.

- Lower nickel than 300 series – with it being replaced by Manganese thus lower cost than 300 series.
- Similar mechanical & physical properties to 300 series.
- Similar fabrication performance to 300 series, including deep-drawing.
- Corrosion resistance similar to 430 (i.e. not nearly as good as 300 series).
- High carbon may cause stress corrosion cracking, especially after welding thicker material.
- Non Magnetic.

### SS 202 Sheet Plate Mechanical Properties:

Mechanical properties	UTS (MPa)	YS (MPa)	%EL
202	655	310	40

### 202 Stainless Steel Sheet Plate Physical Properties:

Modulus of elasticity (GPa)	Density (g/cm <sup>3</sup> )	Thermal conductivity (W/m.K)	Thermal Expansion Co-efficient (/K)
200	7.80	15.0	17 x10 <sup>-6</sup>

## SS 202 Sheet Plate Chemical Properties:

Designation			%C	%Mn	%S	%P	%Si	%Ni	%Cr	%Mo	%N	Others
201	EN 1.4372	Min	--	5.50	--	--	--	3.5	16.0	--	0.05	--
		Max	0.15	7.50	0.015	0.045	1.00	5.5	18.0	--	0.25	--
201L	EN 1.4371	Min	--	6.00	--	--	--	3.5	16.0	--	0.15	--
		Max	0.030	8.00	0.015	0.045	1.00	5.5	17.0	--	0.20	--
202	EN 1.4373	Min	--	7.50	--	--	--	4.0	17.0	--	0.05	--
		Max	0.15	10.5	0.015	0.045	1.00	6.0	19.0	--	0.25	--
204C	EN 1.4597	Min	--	6.5	--	--	--	--	16.0	--	0.15	B:0.0005 /0.0050
		Max	0.10	8.5	0.030	0.040	2.00	2.00	18.0	1.00	0.30	Cu: 2.00/ 3.5

## Corrosion Resistance:

The 200 series grades function comparably to grades 304 and 301 in low corrosion applications, primarily interior ones at room temperature. Use is not advised in chloride conditions.

## Products available:

Hot rolled and Cold Rolled coils and sheets.

## Heat Resistance:

Oxidation resistance is similar to grade 1.4310 (301) up to 840 Centigrade.

### **Weldability:**

Reasonable, although sensitive to intergranular corrosion in the heat affected zone where thickness exceeds 6mm.

### **Applications:**

200 series austenitics are commonly used to replace types 304 and 301 as well as Carbon (ChromManganese) Steels for low corrosion applications at room temperature.

- Cookware & Serving Bowls.
- Furniture & bins
- Window Channel Spacers
- Safety Shoes (mid-sole protector)
- Deep drawn kitchen equipment – e.g. Cookware & Sinks
- Hose Clamps
- Trailer Frames & Industrial Strapping
- Railway Rolling Stock

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