

## 201 STAINLESS STEEL TUBE

Like 304, SS 201 is also in the "Austenitic" group of stainless steels, although it is in a grouping separate from the 300 series: chromium-nickel-manganese grade.

201 is comparable to chromium-nickel types of stainless, including the more common 304 and 301 types. Economy combined with good mechanical and corrosion resistance properties make 201 a very popular grade. It can be formed and welded by common techniques.

The primary composition difference between the 201 and 304 Series is a decrease in nickel and an increase in manganese content in the 201. Some of the nickel is substituted with manganese and nitrogen.

In general, stainless steel is defined as a steel alloy with a minimum of at least 10% chromium, plus other elements, especially nickel. It is also been referred to as a corrosion-resistant steel (or "CRES"), particularly in the aviation/aerospace industry.

### SS 201 Stainless Steel Chemical Analysis

	<b>C (max)</b>	<b>Mn</b>	<b>P (max)</b>	<b>S (max)</b>	<b>Si (max)</b>	<b>Cr</b>	<b>Ni</b>	<b>N (max)</b>	<b>Fe</b>
<b>201</b>	.15	5.50/7.50	.06	.03	1.00	16.00/18.00	3.50/5.50	.25	Balance

### SS 201 STAINLESS STEEL ROUND TUBE

AED stocks four sizes of welded "super buffed" round 201 tube, all with a .065" wall thickness. The outside diameters are 5/8", 3/4", 7/8" and 1". They are generally produced in 20' 2" lengths" and have a rich polished finish, which has the appearance of "chrome."

Common applications for the 201 material include truck and boat rails, pool ladders, grab handles, appliances, mirror mounts, and in racing, they are very popular for nerf bars and bumpers.

The best pricing is always when you order full lengths, which can be cut for economical shipping methods. AED also offers "cut-to-size" pieces.

The SS 201 tubes meet ASTM A240 and ASTM A666.

### SS 201 Tube Typical Mechanical Properties:

**Note: values are longitudinal and based on sheet**

	<b>201 Annealed</b>
<b>Tensile Strength (psi)</b>	110,000
<b>Yield Strength (psi)</b>	55,000
<b>Elongation (% in 2")</b>	52
<b>Rockwell B Hardness</b>	87

Note: "Typical Mechanical Properties" have been compiled from a variety of sources. Information is deemed reliable, but it is not guaranteed. This data is provided for information only, **NOT FOR DESIGN PURPOSES.**