

## 430 STAINLESS STEEL SHEET

430 is in the "Ferritic" group of stainless steels, containing more chromium, no nickel, and carbon from .6% to 35%. It is magnetic and does not respond to heat-treatment.

SS 430 has good corrosion resistance and is highly resistant to atmospheric oxidation and strong oxidizing solutions. It can be readily drawn and formed, and it is weldable by common techniques.

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.

### 430 Stainless Steel Chemical Analysis

	<b>C (max)</b>	<b>Mn (max)</b>	<b>P (max)</b>	<b>S (max)</b>	<b>Si (max)</b>	<b>Cr</b>	<b>Ni</b>
<b>430</b>	.12	1.00	.04	.03	1.00	16.00/18.00	.75

### 430 STAINLESS STEEL SHEET

SS 430 is kind of a tricky material to keep in stock. Sometimes it is available without issue, but other times we may not be able to get it at all. The SS 430 sheets have a mirror-like appearance, and this material is magnetic, so please be sure to understand your application before ordering. Sheet sizes may be 48" x 96" or 48" x 120", depending on availability.

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

SS 430 sheets are produced in the Annealed Condition, and may meet several specifications including ASTM A240, but several others may also apply.

### 430 Sheet Typical Mechanical Properties:

Annealed Condition

	<b>430</b>
<b>Tensile Strength (psi)</b>	70,000
<b>Yield Strength (psi)</b>	45,000
<b>Elongation (% in 2")</b>	25
<b>Rockwell B Hardness</b>	85

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.**