



**Incoloy alloy 825 seamless pipe, welded pipe, steel bar, wire, sheet, plate**

High strength Incoloy alloys, including Incoloy 800 and Incoloy 825, are highly sought after due to their ability to resist both oxidization and carbonization in high-temperature settings.

Nickel-based Incoloy 825 is highly resistant to corrosion. It has a high nickel content, sufficient to resist chloride ion stress corrosion cracking, and a very stable austenite structure. The levels of molybdenum and copper enable the alloy to resist reducing agents and acids. Chromium gives resistance to oxidising conditions, such as nitric acid solutions, nitrates and oxidising salts. The alloy is titanium stabilised to resist pitting and intergranular attack after fabrication, particularly welding, which includes heating in the critical sensitisation temperature range (650 °C – 760 °C).

Corrosion resistant Incoloy alloy 825 steel material available forms include seamless pipe, welded pipe, seamless tube, welded tube, bar, wire, sheet, plate, forgings, pipe fittings and flanges like inconel 825 plate, inconel 825 erw pipes, inconel 825 flange, inconel 825 cap, inconel 825 elbow, inconel 825 reducer, inconel 825 sheet etc. Also offers uns n08825 flange, alloy 825 fittings, uns n08825 reducer, alloy 825 cap, uns n08825 plate, alloy 825 tube and many more.

**Chemical composition of Incoloy Alloy 825 (ASTM B163 – Heat exchanger tube)**

Element	%	Element	%
Nickel	38.0 – 46.0	Carbon	0.05 max
Chromium	19.5 – 23.5	Manganese	1.0 max
Molybdenum	2.5 – 3.5	Sulfur	0.03 max
Copper	1.5 – 3.0	Silicon	0.5 max
Titanium	0.6 – 1.2	Aluminium	0.2 max
Iron	22.0 min (~33%)		

**Typical room temperature tensile properties of Incoloy Alloy 825**

Form	Condition	0.2% Proof Stress MPa	Tensile Strength MPa	Elong %
Tube	Annealed	440	770	35
Tube	Cold drawn	880	1000	15
Bar	Annealed	325	690	45
Plate	Annealed	340	660	45
Sheet	Annealed	420	760	39



## SHANGHAI KATALOR ENTERPRISES CO., LTD.

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ShangHai Katalor are engaged in exporting an excellent assortment of Incolloy 825 that has high demand among our clients all across the globe. Our Incolloy 825 offers high resistance to several corrosive environments, like crevice corrosion, intergranular corrosion and pitting, etc. If you need alloy 825, please contact us, we also offer customizing services that allow you to create the exact design you need.

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