

# INCOLOY 801, ALLOY 801, UNS N08801

## Introduction :

Incoloy 801 ( UNS Designation N08801 ), also known as “Alloy 801”. It is very similar to Incoloy 800. It has iron-nickel-chromium alloys. Incoloy 801 has exceptional resistance to polythionic acid cracking and has increased titanium additions raising the tensile and rupture strength dramatically. Incoloy 802 has high carbon level and it is been used extensively in sinter deck plate applications for handling abrasive. Hence offers competitive high-temperature strength capabilities high-temperature environments. 801 Incoloy is widely used for production of energy conversion devices, such as aerospace craft, rocket motor, nuclear reactor, petrochemical equipments, coaly transforming, and also for producing high temperature components for gas turbine in the field of aviation, naval vessels and industry, such as turbine blade, guide blade, turbine disc, high pressure compressor disc, combustor and so on.

## Products Available

### in forms :

- INCOLOY 801, ALLOY 801, UNS N08801 Plates
- INCOLOY 801, ALLOY 801, UNS N08801 Pipes
- INCOLOY 801, ALLOY 801, UNS N08801 Round Bar
- INCOLOY 801, ALLOY 801, UNS N08801 Tube
- INCOLOY 801, ALLOY 801, UNS N08801 Flanges
- INCOLOY 801, ALLOY 801, UNS N08801 Wire
- INCOLOY 801, ALLOY 801, UNS N08801 Fittings

## Standard Available

### in forms :

- ASTM B163 / ASME SB163
- ASTM B829 / ASME SB829
- ASTM B366 / ASME SB366
- ASTM B409 / ASME SB409
- AMS 5552

## Chemical Composition

	INCOLOY 801	ALLOY 801	UNS N08801
Carbon	0.10 max	0.10 max	0.10 max
Manganese	1.50 max	1.50 max	1.50 max
Aluminium	0.15-0.60	0.15-0.60	0.15-0.60
Sulfur	0.015 max	0.015 max	0.015 max
Silicon	1.00 max	1.00 max	1.00 max
Chromium	19.0-22.0	19.0-22.0	19.0-22.0
Nickel	30.0-34.0	30.0-34.0	30.0-34.0
Copper	0.50 max	0.50 max	0.50 max
Titanium	0.75-1.50	0.75-1.50	0.75-1.50
Iron	Bal	Bal	Bal

## Mechanical Properties

	INCOLOY 801	ALLOY 801	UNS N08801
Tensile Strength, Mpa	650-880	650-880	650-880
Yield Strength, Mpa	350-550	350-550	350-550
Elongation %	25max	25max	25max



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