

# INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277

## Introduction :

Aesteiron continues to expand its product line in UNS S31277 to meet the emerging customer needs, and whereas Aesteiron Steels Pvt. Ltd. is ISO 9001 : 2008 Certified, ASPL has a great Projects in this grade in all parts of the world with renowned suppliers presenting the wide range of services. We pride ourselves in the quality of our products, our competitive pricing and our exceptional customer service. We have been recognized for our outstanding customer service in satisfaction surveys of top-ranked mills in India and all over the world. ASPL, with iron and steel as its main business, manufactures premium steel products with high technologies and a high added value and fosters three major product categories, namely carbon steel, stainless steel and special steel. Through our worldwide marketing network, these premium products not only satisfy the demand on the domestic market but are also exported to more than forty countries and regions in Asia, Africa, Europe and America, extensively applied to various. We are highly qualified by our customers worldwide as a sustainable and trustworthy to meet their request and need at the right time and the right time and the right area. We strive and stand committed to maintain this respectable position by catering to the requirements of our customers in the best possible way leaving no room for complaints.

## Products Available

### in forms :

- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Plates
- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Pipes
- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Round Bar
- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Tube
- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Flanges
- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Wire
- INCOLOY 27-7MO, ALLOY 27-7MO, UNS S31277 Fittings

## Chemical Composition

	INCOLOY 27-7MO	ALLOY 27-7MO	UNS S31277
Copper	0.5-1.5	0.5-1.5	0.5-1.5
Nitrogen	0.3-0.4	0.3-0.4	0.3-0.4
Iron	Bal	Bal	Bal

## Standard Available

### in forms :

- ASTM A479 / ASME SA479
- ASTM A240 / ASME SA240
- ASTM A213 / ASME SA213
- ASTM A249 / ASME SA249
- ASTM A312 / ASME SA312
- ASTM A182 / ASME SA182

## Mechanical Properties

	INCOLOY 27-7MO	ALLOY 27-7MO	UNS
Ultimate Tensile Strength, ksi(Mpa)	120(827)	120(827)	120(827)
Elongation %	50	50	50
Hardness, Rockwell B	95	95	95

## Machinability

- Machining characteristics of this INCOLOY alloy 27-7MO is on the same lines as that of other austenitic alloys.
- This alloy is machined under annealed conditions.

## Welding

- INCOLOY alloy 27-7MO can be welded by gas metal arc welding, gas tungsten arc welding, shielded arc welding, plasma arc welding and submerged metal arc welding.

- The filler metal and electrodes are usually made of INCONEL alloy.

## Forming

- This alloy can be formed under hot or cold conditions.

## Hot working

- INCOLOY alloy 27-7MO can be hot worked at temperature ranges of 980-1150°C (1800-2100°F).

## Cold Working

- Cold rolling may be done on the alloy after annealing.

## Annealing

- INCOLOY alloy 27-7MO should be annealed at temperatures greater than 1121-1175°C (2050- 2150°F).

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## Applications

The INCOLOY alloy 27-7MO is used in the following applications:

- Pollution control
  - Power, marine and chemical industries
  - Pulp, paper, oil and gas industries.
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