



Hastelloy C-276

Henan Sheng He Pipe Industry Co., Ltd., have an experience spanning for over ten years, producing and supplying best-in-class products, minimize cost by getting manufacturing processes under one roof and delivering consignments on a daily basis only because of a diligent and dedicated team. We are manufacturers, suppliers and exporters of Hastelloy C-276 material.

Common Trade Names: UNS Number N10276

Other common names: Alloy C276, Hastelloy C, Inconel C-276

Hastelloy C276 is a nickel-molybdenum-chromium superalloy with an addition of tungsten designed to have excellent corrosion resistance in a wide range of severe environments. The high nickel and molybdenum contents make the nickel steel alloy especially resistant to pitting and crevice corrosion in reducing environments while chromium conveys resistance to oxidizing media. The low carbon content minimizes carbide precipitation during welding to maintain corrosion resistance in as-welded structures. This nickel alloy is resistant to the formation of grain boundary precipitates in the weld heat-affected zone, thus making it suitable for most chemical process application in an as welded condition.

Although there are several variations of the Hastelloy nickel alloy, Hastelloy C-276 is by far the most widely used.

Alloy C-276 is widely used in the most severe environments such as chemical processing, pollution control, pulp and paper production, industrial and municipal waste treatment, and recovery of sour natural gas.

Hastelloy C-276 Available Formats

Sheng He Pipe Industry offers nickel alloy Hastelloy C-276 in a variety of forms, including:

- Bar
- Wire
- Sheet
- Plate
- Forgings
- Pipe fittings
- Flanges



- Seamless & Welded pipe
- Seamless Tube & Welded tube
- Weld Rod

Corrosion Resistant Hastelloy C-276

Considered one of the most versatile corrosion resistant alloys available, Hastelloy C-276 exhibits excellent resistance in a wide variety of chemical process environments including those with ferric and cupric chlorides, hot contaminated organic and inorganic media, chlorine, formic and acetic acids, acetic anhydride, seawater, brine and hypochlorite and chlorine dioxide solutions. In addition, alloy C-276 resists formation of grain boundary precipitates in the weld heat affected zone making it useful for most chemical processes in the as-welded condition. This alloy has excellent resistance to pitting and stress corrosion cracking.

ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Hastelloy C-276 are as follow

| Pipe Seamle ss | Pipe Welde d | Tube Seamle ss | Tube Welde d | Sheet/Pla te | Bar | Forgin g | Fittin g | Wir e |
|----------------|--------------|----------------|--------------|--------------|------|----------|----------|-------|
| B622 | B619 | B622 | B626 | B575 | B574 | B564 | B366 | – |

Chemical Composition, %

| Ni | Mo | Cr | Fe | W | Co | Mn | C |
|-----------|-----------|-----------|---------|---------|---------|---------|---------|
| Remainder | 15.0-17.0 | 14.5-16.5 | 4.0-7.0 | 3.0-4.5 | 2.5 max | 1.0 max | .01 max |
| V | P | S | Si | | | | |
| .35 max | .04 max | .03 max | .08 max | | | | |



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Mechanical Properties- Typical Room Temperature Tensile Properties of Annealed Material

| Product Form | Tensile (ksi) | .2% Yield (ksi) | Elongation % |
|---------------------|----------------------|------------------------|---------------------|
| Bar | 110.0 | 52.6 | 62 |
| Plate | 107.4 | 50.3 | 67 |
| Sheet | 115.5 | 54.6 | 60 |
| Tube & Pipe | 105.4 | 45.4 | 70 |