



## Hastelloy C-22

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-22 material.

**Common Trade Names:** Hastelloy C22, Inconel 22, Nicrofer 5621

Hastelloy C22 provides resistance to general corrosion, pitting, crevice corrosion, intergranular attack, and stress corrosion cracking. Hastelloy C22 contains chromium, molybdenum, tungsten, and iron which makes the alloy resistant to corrosion in stagnant or flowing seawater. The alloy is formed by gas tungsten-arc, gas metal-arc, and shielded metal-arc processes.

### Hastelloy C22 Available Formats

Henan Sheng He Pipe Industry offers Hastelloy C22 in a variety of forms, including:

- Bar
- Wire
- Sheet
- Plate
- forgings
- Pipe fittings
- Flanges
- Seamless & Welded pipe
- Seamless Tube & Welded tube
- Weld Rod

Hastelloy C22 sheet is available in thicknesses ranging from .038 to .141".

Hastelloy C22 strip in coil form is available in lighter gauges up 12" wide.

Hastelloy C22 plate is available up 2" thick.



HENAN SHENG HE PIPE INDUSTRY CO., LTD

WEB: [WWW.SHPIPEINDUSTRY.COM](http://WWW.SHPIPEINDUSTRY.COM)

TEL/WHATSAPP: 0086 - 18837185745

Hastelloy C22 bar is available in wrought bar up to 11" diameter and larger sizes and shapes may be forged to order.

Hastelloy C22 seamless pipe is available up to 2" NB. Larger sizes are available in welded construction (100% X-ray) and can also be fabricated to order. Hastelloy C22 tubing is available up 2" OD in welded & 1/2" OD in seamless construction. Hastelloy C22 redrawn tubes and tubing with tight tolerances can be supplied in almost any size no matter how small the size or quantity.

Butt-weld and forged fittings are available or can be manufactured with short lead times.

**Available forms of Hastelloy C22 are seamless pipe, welded pipe, seamless tube, welded tube, bar, wire, sheet, plate, forgings, pipe fittings and flanges.**

## ASTM Specifications

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ASTM (American Society for Testing and Materials) for various products made out of Hastelloy C-22 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	B57 4	B564	B366	—

## Chemical Composition, %

C	Cr	Co	Fe	Mn	Mo	Ni	P
.010 max	20-22.5	2.5 max	2.0-6.0	.50 max	12.5-14.5	Balance	.02 max
Si	S	W	V				
.08 max	.02 max	2.5-3.5	.35 max				



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## **Mechanical Properties - Typical Room Temperature Tensile Properties of Annealed Material**

Product Form	Tensile (ksi)	.2% Yield (ksi)	Elongation %	Hardness (HRb)
Plate (.25"-1.75")	112	53	62	89
Sheet (.038"-.15")	122	63	54	93
Bar (.50"-5.50")	115	55	60	89