



Alloy 20

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 Alloy 20 material.

Common Trade Names: Carpenter 20, 20Cb-3®, Incoloy® alloy 20

Alloy 20 is an austenitic stainless steel containing less than 50% iron developed for applications involving sulfuric acid. Its corrosion resistance also finds other uses in the chemical, petrochemical, power generation, and plastics industries. Alloy 20 resists pitting and chloride ion corrosion, better than 304 stainless steel and on par with 316L stainless steel. Its copper content protects it from sulfuric acid. Alloy 20 is often chosen to solve stress corrosion cracking problems, which may occur with 316L stainless. Alloy of the same name with the designation "Cb-3" indicates niobium (also known as columbium) stabilized.

Specifications

- ASTM B729, B464, B366, B463, B473, B462, A182, A351, ASTM A743
- ASME SB729, SB464, SB366, SB473, SB462, SA 182, SA351
- ANSI / ASTM A555-79
- EN 2.4660[4]
- UNS N08020[4]
- Werkstoff 2.4660[4]
- Castings are designated CN7M

Sheng He Pipe Industry offers Alloy 20 in a variety of forms, including:

- Pipe & Welded pipe
- Pipe fittings
- Seamless tube & Welded tube
- Flanges



- Bar
- Sheet
- Wire
- Plate
- Forgings
- Weld Rod

ASTM Specifications

Pipe Seaml ess	Pipe Weld ed	Tube Seaml ess	Tube Weld ed	Sheet/Pl ate	Bar	Forgi ng	Fitti ng	Wir e
B729	B464	B729	B468	B463	B4 73	B462	B36 6	-

Chemical Composition, %

Ni	Fe	Cr	Cu	Mo	Nb
32.00-38.00	Balance	19.0-21.0	3.0-4.0	2.0-3.0	8xC-1.0max
C	Mn	P	S		Si
.07max	2.0max	.045max	.035max		1.0max

Mechanical Properties (Annealed Material)

Form	Tensile Min.	Yield Min. (.2% offset)	Elongation Min.	Reduction of Area Min.
Bar (hot or cold finished)	80 ksi	35 ksi	30%	50%
Sheet/Plate	80 ksi	35 ksi	30%	-