Allov 20

(UNS N08020)

Availability:

Seamless Pipe: 1/2" - 8"
Weld Pipe: 1/2" - 12"
Butt-Weld Fittings: 1/2" - 12"
Flanges: 1/2" - 12"
Pressure Fittings: 1/2" - 2"
150# Fittings: 1/4" - 2"
Tubing: 1/4", 3/8", 1/2"
Valves: 1/2" - 12"
Bar: 1" - 8"

Specifications:

ASTM B729, B464, B366, B473, B462 ASME SB729, SB464, SB366, SB473, SB462

Description:

Alloy 20 is one of the so-called "Super" stainless steels that was designed for maximum resistance to acid attack. Its nickel, chromium, molybdenum and copper content contribute to its overall resistance to chloride stress corrosion cracking and general pitting attack. Although the alloy was designed for use in applications involving sulfuric acid, it also can be used for processing pharmaceuticals, food, gasoline, solvents, plastics, explosives, synthetics fibers and many more products.

Typical Applications:

- · Chemical and allied industries
- · Food and dye production
- Heat exchangers
- SO₂ scrubbers and other severe environments
- Tanks
- Pickling racks
- Valves

Tensile Requirements:

Tensile Strength Yield Strength (KSI) = 80(KSI) = 35

KSI can be converted to MPA (Megapascals) by multiplying by 6.895.

Chemical Composition %

С	Nb + Ta	Cr	Cu	Fe	Mn	Мо	Ni	Р	S	SI
MAX	8x Carbon				MAX			MAX	MAX	MAX
0.07	1.0	19.0 - 21.0	3.0 - 4.0	BAL	2.0	2.0 - 3.0	32.0 - 38.0	.045	.035	1.0