

## Description

Alloy 20 is a nickel-iron-chromium austenitic alloy that was developed for maximum resistance to acid attack, specifically sulfuric acid. This superalloy has excellent resistance to general corrosion, pitting, and crevice corrosion in chemicals containing chlorides and sulfuric, phosphoric, and nitric acids.

## Product Capabilities

Form Name	Size Range	Schedules	Specifications
Welded Pipe	1/2"-36"	10S, 40S	ASTM B464 / ASME SB463
Seamless Pipe	1/2"-36"	10S, 40S, 80S, 160, XXH	ASTM B729 / ASME SB729
Buttweld Fittings	1/2"-36"	10S, 40S, 80S, 160	ASTM B366 / ASME SB366
Flanges	1/2"-36"	150#, 300#, 600#	ASTM B462 / ASME SB462
Pressure Fittings	1/2"-2"	3000# THRD/SW	ASTM B462 / ASME SB462 ASTM B473 / ASME SB473
Valves	1/2"-6"	150#; 2000-1500 WOG	NACE MR0175 / MR0103

## Limiting Chemical Composition %

C	Cb	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ta
MAX 0.07	8 Times Carbon 1.00	19.0-21.0	3.0-4.0	MAX 2.0	2.0-3.0	32.0-38.0	0.045	MAX 0.035	MAX 1.0	8 Times Carbon 1.00

## Typical Industrial Applications

- Chemical and allied industries
- Food and dye production
- Heat exchangers
- SO<sub>2</sub> scrubbers and other severe environments
- Tanks

## Tensile Requirements

Tensile Strength ksi (min.)	Yield Strength ksi (min.)
80	35