

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

CHEMICAL COMPOSITION %

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. The alloy is stabilized with columbium to minimize carbide precipitation during welding.

DESIGN FEATURES

- Superior resistance to stress-corrosion cracking in boiling 20 to 40% sulfuric acid
- Excellent general corrosion resistance to sulfuric acid
- Excellent resistance to chloride stress corrosion cracking
- Excellent mechanical properties and fabricability
- Minimal carbide precipitation during welding

AVAILABILITY

SPECS

SEAMLESS PIPE	1/2"-8"	B729
WELD PIPE	3"-12"	B729
BUTT-WELD FITTINGS	1/2"-12"	B366
FLANGES	1/2"-12"	B462, B16.5
PRESSURE FITTINGS	1/2"-2"	B366
150# FITTINGS	1/4"-2"	B366
TUBING	1/4", 3/8", 1/2"	B729
BAR	1"-8"	B462, B473
PLATE	3/16"-1"	B463
FORGINGS		B462

TYPICAL APPLICATIONS

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

TENSILE REQ

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

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