



# ALLOY C-276

UNS N10276



C	CO	CR	FE	MN	MO	NI	P	S	SI	V	W
MAX	MAX			MAX			MAX	MAX	MAX	MAX	
0.01	2.5	14.5 - 16.5	4.0 - 7.0	1.0	15.0 - 17.0	BAL	0.04	0.03	0.08	0.35	3.0 - 4.5

CHEMICAL COMPOSITION %

## DESCRIPTION

Alloy C-276 is an improved wrought version of Alloy C and has the same excellent corrosion resistance as that material but has greatly improved fabricability. It can be hot worked and cold formed by conventional procedures. It can be joined by all of the common welding methods and resists the formation of grain boundary precipitates in the weld-affected zone, thus making it suitable for most chemical process applications in the aswelded condition. It resists pitting and stress-corrosion cracking and is resistant to oxidation at temperatures up to 1900°F.

## DESIGN FEATURES

- Outstanding corrosion resistance and oxidizing environments.
- Excellent resistance to pitting and stress-corrosion cracking.
- Maintains corrosion resistance in welded joints.

## TYPICAL APPLICATIONS

- Chemical processing
- Pollution control
- Pulp and paper
- Other severe environments and/or conditions

AVAILABILITY	SPECS	
SEAMLESS PIPE	1/2" - 6"	40S
WELDED PIPE	1/2" - 12"	10S, 40S
BUTT-WELD FITTINGS	1/2" - 12"	10S, 40S
FLANGES	1/2" - 12"	150#, 300#
VALVES	1/2" - 8"	150#, 300#
PRESSURE FITTINGS	1/2" - 2"	3000#
TUBING	1/4", 3/8", 1/2"	0.035, 0.049, 0.065
FORGINGS		B564, B462

TENSILE REQUIREMENTS	
TENSILE STRENGTH	(KSI) 110
YIELD STRENGTH	(KSI) 52.6

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