

Hastelloy C-276® alloy is a nickel-molybdenum-chromium wrought alloy that is generally considered a versatile corrosion-resistant alloy. This alloy resists the formation of grain-boundary precipitates in the weld heat-affected zone, thus making it suitable for most chemical process applications in the as-welded condition. C-276 alloy has excellent resistance to localized corrosion and to both oxidizing and reducing media. Because of its versatility, C-276 alloy can be used where upset conditions are likely to occur or in multipurpose plants.

## FEATURES

Hastelloy® C-276 alloy has excellent resistance to a wide variety of chemical process environments, including strong oxidizers such as ferric and cupric chlorides, hot contaminated media (organic and inorganic), chlorine, formic and acetic acids, acetic anhydride, and seawater and brine solutions.

It is used in fuel gas desulfurization systems because of its excellent resistance to sulfur compounds and chloride ions encountered in most scrubbers. C-276 alloy has excellent resistance to pitting and to stress-corrosion cracking.

## APPLICATIONS

- Fuel & Gas desulfurization systems
- Organic syntheses involving acid chloride catalysts
- Sulphuric acid coolers
- Vinyl chloride monomer production.

## TECHNICAL INFORMATION

### Chemistry

Chemical Element		% Máx.
C	C Carbon	0,010
Mn	Manganese	1,000
P	Phosphorus	0,040
S	Sulphur	0,030
Si	Silicon	0,080
Ni	Nickel	57,000
Cr	Chromium	14,5-16,5
Mo	Molibdenum	15,0-17,0
Co	Cobalt	2,500
W	Wolframium	3,0-4,5
V	Vanadium	0,350
Fe	Iron	4,0-7,0

### Mechanical properties according standard

Norm ASTM	Rm min.	Rp 0,2% min.	E4d min.%	Z min.%	T.I.(J)	HR B	HB
B-564	100 (690)	41 (283)	40				
B-574	100 (690)	41 (283)	40				
B-575	100 (690)	41 (283)	40		100		
B-619	100 (690)	41 (283)	40				
B-622	100 (690)	41 (283)	40				
B-626	100 (690)	41 (283)	40				

## PRODUCTS



**ROUND BAR**  
Diam. 10 to 400 mm  
ASTM B-574



**DIN / ASA FLANGES**  
1/2" to 24" 150lbs - 3000lbs  
ASTM B-575



**SEAMLESS PIPE**  
1/2" to 8" SCH10 to SCH80S  
ASTM B-619 / B-626



**PLATE - FLAT PRODUCT**  
Thk. 0.5 to 40 mm  
ASTM B-564



**WELDED PIPE**  
Diam. 10 to 400 mm  
ASTM B-622



**BW, SW, High pressure FITTINGS**  
1/2" to 24" SCH10 to SCH80S  
ASTM B-366

