

Hastelloy C-22® alloy is a versatile nickel-chromium-molybdenum-tungsten alloy with better overall corrosion resistance than other Ni-Cr-Mo alloys available, including C-276 and C-4 alloys and alloy 625. C-22 alloy has exceptional resistance to a wide variety of chemical process environments, including strong oxidizers such as ferric and cupric chlorides, chlorine, hot contaminated solutions (organic and inorganic), formic and acetic acids, acetic anhydride, and seawater and brine solutions.

## FEATURES

C-22 alloy has outstanding resistance to pitting, crevice corrosion, and stress corrosion cracking. It has excellent resistance to oxidizing aqueous media including wet chlorine and mixtures containing nitric acid or oxidizing acids with chloride ions.

Also, C-22 alloy offers optimum resistance to environments where reducing and oxidizing conditions are encountered in process streams.

## APPLICATIONS

- Acetic Acid/ Acetic Anhydride
- Cellophane Manufacturing
- Complex Acid Mixtures
- Electro-Galvanizing Rolls
- Flue Gas Scrubber Systems

## TECHNICAL INFORMATION

### Chemistry

Chemical El.		% Máx.
C	C Carbon	0,015
Mn	Manganese	0,500
P	Phosphorus	0,020
S	Sulfure	0,020
Si	Silicon	0,080
Ni	Nickel	56,000
Cr	Chromium	20,0-22,5
Mo	Molibdenum	12,50-14,50
Co	Cobalt	2,500
W	Wolframium	2,50-3,50
V	Vanadium	0,350
Fe	Iron	2,0-6,0

### Mechanical properties according standards

Norm ASTM	Rm min.	Rp 0,2% min.	E4d min.%	Z min.%	T.I.(J)	HR B	HB
B-462	100 (690)	45 (310)	45				
B-574	100 (690)	45 (310)	45				
B-575	100 (690)	45 (310)	45		100		
B-619	100 (690)	45 (310)	45				
B-622	100 (690)	45 (310)	45				

## 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



**PLATE - FLAT PRODUCT**  
Thk. 0.5 to 40 mm  
ASTM B-574 / B-462



**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

