

# **Hastelloy C-2000**

Hastelloy C-2000 is a nickel-chromium-molybdenum alloy containing copper and extremely low carbon and silicon contents. It is characterized by:

- excellent resistance to a wide range of corrosive media, under oxidizing and reducing conditions
- excellent resistance to pitting, crevice corrosion, and stress corrosion cracking

#### **Chemical Composition, %**

element	Ni	Мо	Cr	Fe	Cu	Co	Al	С	Mn	Si	Р	S
min.	bal.	15.0	22.0		1.3							
max.		17.0	24.0	3.0	1.9	2.0	0.50	0.01	0.5	0.08	0.025	0.010

Chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

### **Designation and standards**

National	Material	Chemical	Forgings	Rod and	Plate and	Ctrin	Seamless
Standards	designation	composition	Forgings	bar	sheet	Strip	tube
			B564				
ASTM	UNS N06200		SB564	B574	B575	B575	B622
ASME	UNS NU6200		B462	SB574	SB575	SB575	SB622
			SB462				
DIN	2.4675	DIN 17744		DIN 17752	DIN 17750	DIN 17750	DIN 17751
	NiCr23Mo16Cu	DIN 17744		DIN 17752	DIN 17750	DIN 17750	17/71 אונט
GB/T	NS3405, NS345	GB/T 15007					

Density 8.50g/cm<sup>3</sup>

#### **Corrosion resistance**

- excellent corrosion resistance in sulfuric acid, hydrofluoric acid and dilute hydrochloric acid over large temperature ranges
  - excellent resistance to pitting, crevice attack, and stress corrosion cracking

## **Applications**

Typical applications are:

- chemical process industry reactors, heat exchangers, columns and piping
- pharmaceutical industry reactors and dryers
- flue gas desulfurization systems