



## Hastelloy B3

### 1. Brief introduction:

It's a Ni-Mo alloy with excellent resistance to pitting, corrosion, and stress-corrosion cracking plus, thermal stability superior to that of hastelloy B2.

It has great resistance to knife-line and heat-affected zone attack. Alloy B-3 also withstands sulfuric, acetic, formic and phosphoric acids, and other non-oxidizing media. Furthermore, it has excellent resistance to hydrochloric acid at all concentrations and temperatures.

It has excellent corrosion resistance in medium-concentration non-oxidizing sulfuric acid, phosphoric acid, high-temperature acetic acid, formic acid and other organic acids, bromic acid and hydrogen chloride gas, and is also resistant to corrosion by halogen catalysts.

Hastelloy B-3's distinguishing feature is its ability to maintain excellent ductility during transient exposures to intermediate temperatures. Such exposures are routinely experienced during heat treatments associated with fabrication.

### 2. Main specifications:

Chinese	USA	Alloy
/	<b>Hastelloy B3</b>	<b>N10675</b>



**3. Chemical composition under ASTM B335-03(2013) standard:**

Grade	chemical composition,%																		
	Ni	Mo	Fe	Cr	C	Si	Co	Mn	P	S	V	Ni+Mo	Al	Nb	Cu	Ta	Ti	W	Zr
alloy N10675	≥65.0	27.0-32.0	1.0-3.0	1.0-3.0	≤0.01	≤0.1	≤3.0	≤3.0	≤0.03	≤0.01	≤0.2	94.0-98.0	≤0.5	≤0.2	≤0.2	≤0.2	≤0.2	≤3.0	≤0.1

**4. Main product types:**

wire,rod,forging,bar,strip,sheet/plate,tube/pipe.

**5. Main produce standards:**

Wire,Rod, Bar,Forging	Plate/Sheet/Strip	Tube/Pipe	Fitting
ASTM B335 ASTM B564 ASTM B462 ASTM B472	ASTM B333	ASTM B619/B619M ASTM B622 ASTM B626	ASTM B366/B366M-16

**6. Hastelloy B3 Source URL:**

<https://www.hitealloy.com/product/hastelloy-b3-n10675.html>