



CHANGZHOU DLX ALLOY CO., LTD.

**HASTELLOY**



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## CONTACT US

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## HASTELLOY B-2

is a nickel-base wrought alloy with excellent resistance to hydrochloric acid at all concentrations and temperatures. Therefore, it has great resistance to stress-corrosion cracking and pitting. Hastelloy B-2 also features hydrochloric acid resistance at all concentrations and temperatures.

### Hastelloy B-2 Chemical composition

Alloy	%	Ni	Mo	Fe	Cr	Co	C	Mn	V	Si	S
Hastelloy B-2	Min.	Balance	26						0.2		
	Max.		30	2	1	1	0.02	1	0.4	0.1	0.03

### Hastelloy B-2 Physical properties

Density	9.24g/cm <sup>3</sup>
Melting point	1330-1380 °C

### Hastelloy B-2 Alloy minimum mechanical properties in the room temperature

Alloy state	Tensile strength	Yield strength	Elongation
	Rm N/mm <sup>2</sup>	RP0.2 N/mm <sup>2</sup>	A5 %
Hastelloy B-2	690	310	40

## HASTELLOY B-3

is a nickel-molybdenum alloy with excellent resistance to pitting, corrosion, and stress-corrosion cracking plus, thermal stability superior to that of alloy B-2. In addition, this nickel steel alloy 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, this nickel alloy has excellent resistance to hydrochloric acid at all concentrations and temperatures.

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.

### Chemical composition

C	Mn	Si	Co	W	Ti+Cu	Al	Cr	Ni	Mo	Fe
0.01 max	3.0 max	0.10 max	3.0 max	3.0 max	0.4 max	0.5 max	1.5	65.0 min	28.5	1.5

### Properties

Density g/cm <sup>3</sup>	Melting point °C	Yield strength MPa	Tensile strength MPa	Elongation %
9.22	1370-1418	385	890	60.4

## HASTELLOY X

### Hastelloy X Chemical composition

Chemical composition																	
Alloy	%	Ni	Cr	Mo	Fe	W	Co	C	Mn	Si	V	P	S	Al	Ti	Cu	
X	Min.	balance	20.5	8	17	0.2	0.5	0.05									
	Max.		23	10	20	1	2.5	0.15	1	1		0.04	0.03	0.5	0.15	0.5	

### Hastelloy X Physical properties

Physical properties	
Density	8.22 g/cm <sup>3</sup>
Melting point	1260-1355 °C

### Minimum mechanical properties in the room temperature

Minimum mechanical properties in the room temperature			
Alloy status	Tensile strength	Yield strength	Elongation
	Rm N/mm <sup>2</sup>	RP0.2 N/mm <sup>2</sup>	A5 %
Solution treatment	730	283	40

## HASTELLOY® N

is a nickel base alloy. It is added with molybdenum in order to increase its hot oxidation resistance to fluoride salts.

### Hastelloy® N Chemical composition

%	Ni	Mo	Cr	Fe	C	Mn	Si	P	S	W	V	Al+Ti	Cu	B
min	balance	15	6		0.04									
max		18	8	5	0.08	1	1	0.015	0.02	0.5	0.5	0.5	0.35	0.01

### Hastelloy® N Physical properties

Density	8.78 g/cm <sup>3</sup>
Melting range	1300-1400 °C





## HASTELLOY C276

is a Nickel-chromium-molybdenum wrought alloy that is considered the most versatile corrosion resistant alloy available. This alloy is resistant to the formation of grain boundary precipitates in the weld heat-affected zone, thus making it suitable for most chemical process applications in an as welded condition. Alloy C-276 also has excellent resistance to pitting, stress-corrosion cracking and oxidizing atmospheres up to 1900°F. Alloy C-276 has exceptional resistance to a wide variety of chemical environments.

### Hastelloy C-276 Chemical composition

Alloy	%	Ni	Cr	Mo	Fe	W	Co	C	Mn	Si	P	S
C	Min.	balance	14.5	15	4	3						
	Max.		16.5	17	7	4.5	2.5	0.08	1	1	0.04	0.03
C276	Min.	balance	14.5	15	4	3						
	Max.		16.5	17	7	4.5	2.5	0.01	1	0.08	0.04	0.03

### Hastelloy C-276 Physical properties

Density	8.9 g/cm <sup>3</sup>
Melting point	1325-1370 °C

### Hastelloy C-276 Alloy minimum mechanical properties in the room temperature

Alloy status	Tensile strength	Yield strength	Elongation
	Rm N/mm <sup>2</sup>	RP0.2 N/mm <sup>2</sup>	A5 %
Solution treatment	690	283	40

## ALLOY C22

is a nickel-chromium-molybdenum solid solution strengthened super-alloy with a nominal chemical composition of 56% nickel, 22% chromium, and 13% molybdenum, with additions of iron, tungsten, and cobalt. It is commonly referred to by the tradename Hastelloy C22 and the universal designation UNS N06022. C22 has excellent corrosion and oxidation resistance, great mechanical properties over a wide range of temperatures, and good fabrication properties.

### Chemical composition

%	Ni	Cr	Mo	Fe	W	Co	C	Mn	Si	P	V
min	balance	20	12.5	2	2.5						
max		22.5	14.5	6	3.5	2.5	0.015	0.5	0.08	0.02	0.35

### Physical properties

Density	8.69 g/cm <sup>3</sup>
Melting range	1325-1370°C



## HASTELLOY C-4

is a Nickel-Chromium-Molybdenum alloy that offers exceptional stabilization at the elevated temperatures, good ductility and resistance to corrosion properties. It retains its characteristics even after aging up to 1200°F to 1900°F or 649°C to 1038°C. Alloy C-4 offers resistance to grain development precipitation in the welding area so it is highly suitable for the chemical processes in the welding condition. It offers extremely high resistance to stress corrosion cracking and oxidizing conditions up to 1900°F or 1038°C.

Hastelloy C-4 offers resistance to mineral acids, organic and inorganic acids, sea water and brine solutions. It has service temperature up to 1900°F or 1038°C. Outstanding resistance to high temperature corrosion and stress corrosion cracking. Great material for use in chemical processing plants and nuclear fuel processing.

### Chemical composition

%	Ni	Cr	Mo	Fe	Co	C	Mn	Si	P	S
min	balance	14	14							
max		18	17	3	2	0.015	1	0.08	0.04	0.03

### Physical properties

Density	8.64 g/cm <sup>3</sup>
Melting range	1350-1380°C

## HBWIRE

- 1 Material:Q195,wire dia8-22BWG.
- 2 Super in corrosion resistance.
- 3 Standard:ISO9001.
- 4 Use:Making wire mesh.



HB Wire: We manufacture and supply the finest quality of HB wire that are used mainly in garment industry for:making GI WIRES, Barbed Wires, Weld Mesh, Binding. hook wire,fence wire,Hanger Wire and Hanging Wire.

These products are durable and contain rust resistance properties. It provides excellent mechanical strength without compromising the capacity. We manufactures these wires of various sizes.

