

Hastelloy B-1 Data Sheet

Introduction

Hastelloy B-1 is generally known as Hastelloy B-1 (Hastelloy), Hastelloy B-1 has the following features:

- Control of iron and chromium in the minimum level to prevent the generation of phase Ni₄Mo
- Excellent corrosion resistance to environment
- Excellent corrosion resistance to medium concentrations of sulfuric acid and some of non-oxidizing acid
- Good resistance to chloride ions to stress corrosion cracking (SCC)
- Excellent corrosion resistant ability of various organic acids

Chemical & Physical Properties

Ni	Cr	Fe	C	Mn	Si	Mo	P	S	Co	Other
Bal.	1	4-6	≤ 0.05	≤ 1	≤ 1	26-30	≤ 0.04	≤ 0.03	≤ 2.5	0.2-0.4

Applications

It is widely used in chemical, petrochemical, energy production and pollution control areas, particularly in sulfuric acid, hydrochloride acid, phosphoric acid, acetic acid and other industries. When it is applied to specific areas, please consult the material supplier.

Standard Dimensions

Wire	Diameter (mm)	Tolerance (mm)
	1.6, 2.0, 3.17	+ 0 / - 0.05

Other sizes (diameter and wire weight) can be manufactured accordingly to the requirements of customers.

Packaging

Spool	15kgs(33 lbs) / spool (D300 spool)
Coil	20 - 400kgs / coil