

WISDOM Thermal Spray Consumables

Nickel base alloy



Hastelloy B-1

DATA SHEET

September 2016

Introduction

Hastelloy B-1 collectively 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 β phase Ni_4Mo
- reduction of environmental excellent corrosion resistance
- excellent resistance to medium concentrations of sulfuric acid and a number of non-oxidizing acid corrosion
- good resistance to chloride ions to stress corrosion cracking (SCC)
- Excellent corrosion resistant ability of various organic acids

Surface Preparation

Surface should be clean, white metal, with no oxides (rust), dirt, grease, or oil on the surface to be coated. Note: It is best not to handle surfaces after cleaning. Recommended method of preparation is, to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe.

Application

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

Chemical composition(%)

	Ni	Cr	Fe	C	Mn	Si	Mo	P	S	Co	OT HE R
Min			4				26				0.2
Max	Rest	1	6	0.05	1	1	30	0.04	0.03	2.5	0.4

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Standard Sizes & Packing

Diameter	Dimension Tolerance	Packing	Wire Weight
1/16"(1.6mm)	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
2.0mm	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
1/8"(3.17mm)	+0/-0.05	Coil Form	20-400kgs/coil

Other sizes can be produced by customers' requirement.