

上海韦泰工业器材有限公司 Wel-Tech Shanghai Industrial Supplies Ltd.

INCONEL 600

Description

A nickel-chromium alloy used in chemical and food processing, nuclear engineering, sparking electrodes, and furnace components. Inconel 600 is created with a resistance to chloride-ion stress-corrosion cracking, caustic corrosion, corrosion by high-purity water, and good oxidation resistance at high temperatures.

Forms Available

- •Pipe
- •Fittings
- Flanges
- •Plate
- •Bar
- •Forging

Specications

UNS N06600

Welded Pipe	ASTM/ASME 517
Smls Pipe	ASTM/ASME 167
Flanges	ASTM/ASME 564
Fittings	ASTM/ASME 366
Plate	ASTM/ASME 168
Bar	ASTM/ASME 166

Limiting Chemical Composition, %

Nia72.0 min.	Si0.5 max.
Cr14.0 – 17.0	S0.015 max.
Fe6.0 – 10.0	Cu 0.5 max.
Mn1.0 max.	
C0.15 max.	*a denotes- Plus Co

www.wel-tech.com

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INCONEL 625

Description

Used in aerospace and marine engineering, pollution-control equipment, chemical processing, and nuclear reactors, Inconel 625 is especially resistant to pitting and crevice corrosion. A nickel-chromium-molybdenum alloy with an addition of niobium that works with the molybdenum to stiffen the alloys matrix providing high strength without a strengthening heat treatment.

Forms Available

- •Pipe
- •Fittings
- •Flanges
- •Plate
- •Bar
- Forging

Specications

UNS N06625

Welded Pipe	ASTM/ASME 705
Smls Pipe	ASTM/ASME 444
Flanges	ASTM/ASME 564
Fittings	ASTM/ASME 366
Plate	ASTM/ASME 424
Bar	ASTM/ASME 425

Limiting Chemical Composition, %

Ni58.0 min.	C0.10 max.
Cr20.0 – 23.0.	Mn0.50 max.
Mo8.0 - 10.0	Si0.50 max.
Nb+Ta3.15–4.15	S0.015max.
Fe5.0 max.	P0.015 max.
Ti0.40 max.	Al0.40 max.

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INCONEL 800

Description

Nickel-iron-chromium alloys with higher creep-rupture strength. The close control of the aluminum, titanium, and carbon contents in conjunction with a high-temperature anneal result in the higher strength. Incoloy 800 is used in industrial furnaces, chemical and petrochemical processing, power plants for super-heater and re heater tubing, and heat-treating equipment.

Forms Available

- •Pipe
- Fittings
- Flanges
- •Plate
- •Bar
- Forging

Specications

UNS N08800

Welded Pipe	ASTM/ASME 514
Smls Pipe	ASTM/ASME 407
Flanges	ASTM/ASME 564
Fittings	ASTM/ASME 366
Plate	ASTM/ASME 409
Bar	ASTM/ASME 408

Limiting Chemical Composition, %

Ni...30.0-32.0 Fe...41.0~47.0 Cr...19.0-21.5 C.....0.10 max Al...0.20-0.40 Ti...0.20-0.50 Al+Ti...0.40-0.90

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INCONEL 825

Description

Incoloy 825 has excellent resistance to both oxidizing and reducing acids, pitting and crevice corrosion, as well as stress-corrosion cracking. Incoloy 825 is a nickel-iron-chromium alloy with additions of molybdenum and copper used for oil and gas well piping, chemical processing, nuclear fuel reprocessing, acid production, pollution-control equipment, and pickling equipment.

Forms Available

- •Pipe
- •Fittings
- •Flanges
- •Plate
- •Bar
- Forging

Specications

UNS N08825

Welded Pipe	ASTM/ASME 705
Smls Pipe	ASTM/ASME 444
Flanges	ASTM/ASME 564
Fittings	ASTM/ASME 366
Plate	ASTM/ASME 424
Bar	ASTM/ASME 425

Limiting Chemical Composition, %

Ni38.0-46.0	Ti0.6-1.2
Fe22.0min.	C0.05max.
Cr19.5-23.5	Mn1.0max.
Mo2.5-3.5	S0.03 max.
Cu1.5-3.0	Si0.5 max.

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Al...0.02 max.