



CHANGZHOU DLX ALLOY CO., LTD.



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INCOLOY SERIES



CONTACT US

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INCOLOY SERIES

INCOLOY 800, 800H, 800HT, 825, 925

Incoloy alloy is superalloys that is composed of a nickel-iron-chromium base and can resist both carbonization and oxidization in high temperature settings. It's easy to fabricate, utilizing the same machines and processes as stainless steel. It's available in numerous grades that provide enhanced protection against aggressive forms of corrosion.

APPLICATION

Hot vessels for food, water, sea water

Sulfuric acid piping and vessels

Marine exhaust systems

Industrial furnaces

Heat exchangers

Hydrocarbon cracking

CHEMICAL COMPOSITION %							
Item	C	Al	Ti	Ni	Cr	Al+Ti	Fe
Incoloy 800 UNS N08800	≤0.10	0.15-0.60	0.15-0.60	30.0-35.0	19.0-23.0	0.30-1.20	≥39.5
Incoloy 800H UNS N08810	0.05-0.10	0.15-0.60	0.15-0.60	30.0-35.0	19.0-23.0	0.30-1.20	≥39.5
Incoloy 800HT UNS N08811	0.06-0.10	0.25-0.60	0.25-0.60	30.0-35.0	19.0-23.0	0.85-1.20	≥39.5

Item	Density (g/cm ³)	Melting Range (°C)	Specific Heat (0-100°C) J/kg·°C	Curie Temperature (°C)	Permeability at 200 oersted 21°C (15.9 kA/m)
Incoloy 800/800H/800HT	7.94	1357-1385	460	-115	1.00

Inconel	wire	Bar	Forging	Pipe	Sheet/Strip
Standard	ASTM B 408	ASTM B 564	ASTM B 564	ASTM B 163	ASTM A 240

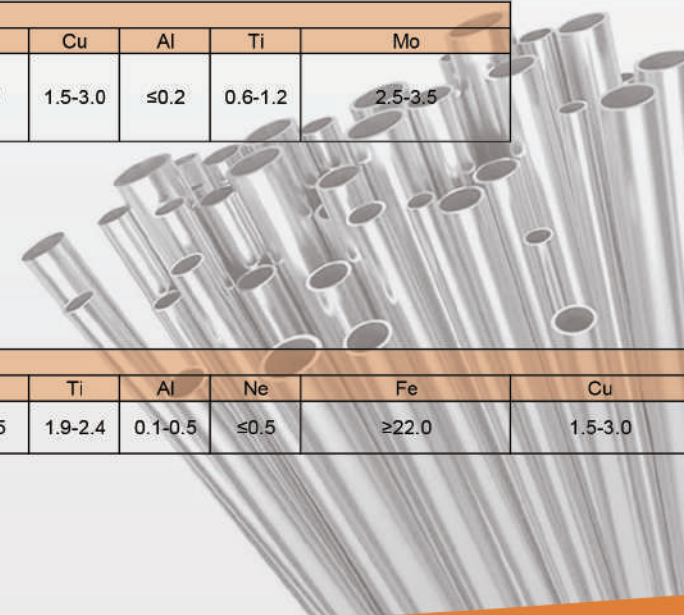
Shape	Size (mm)
Wire	0.1~8.0
Rod/Bar	8.0~200
Strip	(0.1~2.5)*(5~180)
Plate	custom made

CHEMICAL COMPOSITION %											
Item	C	Si	S	Mn	Cr	Ni	Fe	Cu	Al	Ti	Mo
Incoloy 825 UNS N08825 W.Nr. 2.4858	≤0.05	≤0.5	≤0.03	≤1.0	19.5-23.5	38.0-46.0	≥22.0	1.5-3.0	≤0.2	0.6-1.2	2.5-3.5

Item	Density (g/cm ³)	Melting Range (°C)	Specific Heat J/kg·°C	Curie Temperature (°C)	Permeability at 200 oersted (15.9 kA/m)
Incoloy 825 UNS N08825 W.Nr. 2.4858	8.14	1370-1400	440	≤196	1.005

CHEMICAL COMPOSITION %												
Item	C	Si	S	Mn	Cr	Ni	Mo	Ti	Al	Ne	Fe	Cu
Incoloy 925 UNS N09925	≤0.03	≤0.5	≤0.03	≤1.0	19.5-22.5	42.0-46.0	2.5-3.5	1.9-2.4	0.1-0.5	≤0.5	≥22.0	1.5-3.0

Item	Density (g/cm ³)	Melting Range (°C)	Permeability at 200 oersted (15.9 kA/m)	Electrical Resistivity (μΩ·m)
Incoloy 925 UNS N09925	8.08	1311-1366	1.001	1.17



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