GENERAL TECHNICAL INFO

Type (Incoloy 925® UNS N09925)

Available forms are bar, wire, forgings

Chemical Composition

Element	Min %	Max %
Carbon	**	0.03
Chromium	19.5	22.5
Iron	22.0	**
Aluminum	0.1	0.5
Nickel	42.0	46.0
Molybdenum	2.5	3.5
Niobium	**	0.5
Silicon	**	0.5
Manganese	**	1.0
Copper	1.5	3.0
Titanium	1.9	2.4
Sulfur	**	0.03

Specifications

Plate/Sheet	ASTM ___
Round Bar/Wire	ASTM B805
Pipe & Tube	ASTM ___
Fittings	ASTM ___
Forgings	ASTM B564

(Incoloy 925® UNS N09925)

Description

INCOLOY® alloy 925 (UNS N09925) is an age hardenable nickel-iron-chromium alloy with additions of molybdenum, copper, titanium and aluminum. The alloy's chemical composition is designed to provide a combination of high strength and excellent corrosion resistance. The nickel content is sufficient for protection against chloride-ion stresscorrosion cracking. The nickel, in conjunction with the molybdenum and copper, also gives outstanding resistance to reducing chemicals. The molybdenum aids resistance to pitting and crevice corrosion. The alloy's chromium content provides resistance to oxidizing environments. The titanium and aluminum additions cause a strengthening reaction during heat treatment.

Applications

high-strength piping systems,

pump shafting,

valves, hangers, landing nipples,

tool joints, packers,

fasteners

Common Trade Name

Incoloy 925® UNS N09925