Alloy C4	Corrosion Resistant Alloy	Trade name	UNS	DIN	EN
		Hastelloy C4	N06455	W2.4610	NiMo16Cr16Ti

Chemical Composition %

Cr	Mo	Ni	Fe	Co	C	Mn	Si	P	S	Ti
14-18	14-17	Balance	3 max	2max	0.015max	1max	0.08max	0.04max	0.03max	0.07max

Recommended Welding Consumables

Wire ER NiCrMo-7
Rod E NiCrMo-7

Form	Smls Pipe/Tub	Weded Pipe	Welded Tube	Fittings	Plate	Bar	Forgings
Standard	ASTM B622	ASTM B 619	ASTM B 626	ASTM B 366	ASTM B333	ASTM B335	ASTM B564

Properties

Resistance to stress-corrosion cracking
Resistance to oxidizing atmospheres at high temperature
Resistance to a wide variety of chemical process environments including, hot contaminated mineral acids, solvents, chlorine, formic and acetic acids, salt waters.

Applications

Processing equipment in Oil & Gas and Chemical Industry, nuclear fuel processing

Physical Properties

Density: 0.312 lb/in3 8.64 g/cm3
Melting Point 1399°C 2550°F
Coefficient of Expansion 6.0 x 10-6 in/in °F (70 – 212°F) 10.8 µm/m °C (20 – 100°C)
Modulus of Rigidity 81.2 kN/mm² 11777 ksi
Modulus of Elasticity 212.4 kN/mm² 30807 ksi
Ultimate Tensile Strength: 100 KSI min (690 MPa min)
Yield Strength: 40 KSI min (276 MPa min)
Elongation: 40% min