

Alloy G-30 Corrosion Resistant AlloyTrade name
Hastelloy G-30UNS
N06030DIN
W2.4603EN
2.4603**Chemical Composition %**

Cr	Mo	Ni	Fe	Co	C	Mn	Si	P	S	W	V	Cu
28-31.5	4-6	Balance	13-17	5max	0.030max	1max	0.08max	0.04max	0.02max	1.5-4	0.35max	1-2.4

Recommended Welding Consumables

Wire ER NiCrMo-11

Rod E NiCrMo-11

Form	Smls Pipe/Tu	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

Resistant to phosphoric acids

Efficient in complex environments containing highly oxidizing acids

Applications

Phosphoric acid equipment, sulfuric acid equipment, nitric acid equipment, nuclear fuel reprocessing, nuclear waste treatment, pickling operations, Fertilizer production, pesticide production, and gold mining extraction, petrochemical products

Physical PropertiesDensity: 0.297 lbs/in³ , 8.22 g/cm³

Mean Coefficient of Thermal Expansion: in/in/ °F (mm/m/ °C):

70-212 °F (20- 100 °C): 7.1 x 10⁻⁶ (12.8)

Thermal Conductivity: BTU-in/h-ft-°F (W/m-°K): 70 °F (21 °C): 71 (10.2)

Modulus of Elasticity: ksi (MPa) 29.3 x 10³ (202 x 10³) in tension

Melting Point (approximate): 2550 °F (1399 °C)

Ultimate Tensile Strength: 85 KSI min (586 MPa min)

Yield Strength: (0.2% offset) 35 KSI min (241 MPa min)

Elongation: 30% min