

Alloy B2 **Corrosion Resistant Alloy** **Trade name**
(Nimofer 6928, Hastelloy B2) **UNS** **DIN** **EN**
N10665 **W2.4627** **NiMo28**

Chemical Composition %

Ni	Cr	Mo	Mn	Fe	Si	C	P	Co	S
Balance	Max 1	26-30	Max 1	Max 2	Max 0.1	Max 0.02	Max. 0.04	Max.1	Max 0.03

Recommended Welding Consumables

Wire ER NiMo-10
Rod E NiMo-10

Form	Smls Pipe/Tube	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

Great resistance to stress corrosion cracking and pitting.
Significant resistance to reducing conditions like hydrogen chloride, sulfuric, acetic and phosphoric acids.
Resistance to hydrochloric acid at all concentrations and temperatures.

Applications

Chemical processes
Vacuum furnaces
Mechanical components in reducing environments

Physical Properties

Tensile Min. (KSI) 110
0.2%Yield Min. (KSI) 51
Elongation Min. 40
Density: 0.333 lb/in³, 9.22 g/cm³
Electrical Resistivity: ohm-cm
At 212 °F (100 °C): 0.000138 Specific Heat: BTU/lb-°F (J/g-°C)
At 212 °F (100 °C): 0.0930 (0.389)
Modulus of Elasticity: KSI (MPa)
31.5 x 10³ (217 x 10³) in tension
Melting Range: 2426 - 2516 °F (1330 - 1380 °C)
Hardness: Rb 100 max