

Duplex SS 2304

Trade name  
A16-XN

UNS  
S32304

DIN  
W1.4362

EN  
X2CrNiN23-4

**Chemical Composition %**

Cr	Ni	Fe	N	Mo	C	Mn	Si	P	S
22-24	3.5-5.5	Balance	0.05-0.2	0.1-0.6	0.03 max	2 max	1 max	0.035 max	0.015 max

**Recommended Welding Consumables**

Wire ER 2307  
Rod E 2307

Form	Pipe	Tube	Fittings	Plate	Bar	Forgings
Standard	A790	A789	A815	A240	A276	A182

**Properties**

Very good resistance to chloride pitting, crevice corrosion and stress corrosion cracking

**Applications**

Chemical process equipment  
Heat Exchangers  
Piping components

**Physical Properties**

Density: 0.284 lbs/in<sup>3</sup> 7.86 g/cm<sup>3</sup>  
Thermal Conductivity: BTU-ft/hr/ft<sup>2</sup>/°F (W/m-°K):  
At 68 - 212 °F (20 - 100 °C): 9.0 (17.0)  
Mean Coefficient of Thermal Expansion: in/in/°F (µm/m•K):  
32 - 212 °F: 6.97 x 10<sup>-6</sup> (13.0)  
Modulus of Elasticity: ksi (MPa):  
29 x 10<sup>3</sup> (200 x 10<sup>3</sup>) in tension  
Magnetic Permeability: Ferromagnetic  
Melting Point: 2570 - 2660 °F (1410 - 1460 °C)  
Ultimate Tensile Strength: 110 KSI min (758 MPa min)  
Yield Strength: (0.2% offset) 65 KSI min (448 MPa min)  
Elongation: 30% min

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