WELDWIRE COMPANY, INC.

Technical Information

Stainless Steel ElectrodesAlloy: WW310NB-16Class: E310NB-16Conforms to Certification: AWS A5.4ASME SFA A5.4

Alloy: E310NB-16

Weld Process: Shielded Manual Metal Arc

AWS Chemical Composition Requirements

C = 0.12 max	Si = 0.75 max
Cr = 25.0 - 28.0	P = 0.03 max
Ni = 20.0 - 22.0	S = 0.03 max
Mo = 0.75 max	Cu = 0.75 max
Mn = 1.0 - 2.5	Nb (Cb) + Ta = 0.07- 1.00

Deposited All Weld Metal Properties %(Typical) As-WeldedYield Strength90,000psiTensile Strength60,500psiElongation31%

Deposited Chemical Composition % (Typical)

C = 0.09	Si = 0.52
Cr = 26.40	P = 0.02
Ni = 21.40	S = 0.022
Mn = 2.00	Mo = 0.62
Nb = 0.79	

Deposited Charpy-V-Notch Impact Properties % Not Applicable

Recommended Welding Parameters

5
0
20
30
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Application

Type E310NB-16 electrodes deposit weld metal that is similar in composition to that of type 310, with an addition of columbium and a reduction in carbon content. Electrodes are primarily used for welding steels clad with type 347.

