WELDWIRE COMPANY, INC.

Technical Information

Stainless Steel ElectrodesAlloy: WW410-16Class: E410-16Conforms to Certification: AWS A5.4ASME SFA A5.4

Alloy: E410-16

Weld Process: Shielded Manual Metal Arc

AWS Chemical	Com	position	Rec	uirements

Si = 0.90 max

P = 0.04 max

S = 0.03 max

Cu = 0.75 max

C = 0.12 max

Cr = 11.0 - 13.5

Ni = 0.70 max

Mo = 0.75 max

Mn = 1.0 max

Deposited All Weld Metal Properties % (Typical) As-Welded

Yield Strength Tensile Strength Elongation

79,000psi 63,500psi 24%

Deposited Chemical Co	omposition % (Typical)
C = 0.10	Si = 0.52
Cr = 12.20	P = 0.021
Ni = 0.65	S = 0.021
Mn = 0.68	

Deposited Charpy-V-Notch Impact Properties % Not Applicable

Recommended Welding Parameters

z Overhead
-75
-90
-120
-130
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Application

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E410-16 electrodes are recommended for welding type 410 straight chromium steel. This alloy is used extensively for corrosion and oxidation resistance at elevated temperatures up to 1500°F. Unlike the chromium-nickel stainless steels, this type is not subject to loss of corrosion resistance due to carbide precipitation.

