

Stainless Steel Electrodes

Alloy: WW430-16 Class: E430-16

Conforms to Certification: AWS A5.4 ASME SFA A5.4

Alloy: E430-16

Weld Process: Shielded Manual Metal Arc

AWS Chemical Composition Requirements

C = 0.10 max	Si = 0.90 max
Cr = 15.0 – 18.0	P = 0.04 max
Ni = 0.60 max	S = 0.03 max
Mo = 0.75 max	Cu = 0.75 max
Mn = 1.0 max	

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

Yield Strength	74,000psi
Tensile Strength	58,500psi
Elongation	23%

Deposited Chemical Composition % (Typical)

C = 0.05	Si = 0.42
Cr = 16.40	P = 0.023
Mn = 0.65	S = 0.024

Deposited Charpy-V-Notch Impact Properties %

Not Applicable

Recommended Welding Parameters

<u>Diameter</u>	<u>Voltage</u>	<u>Amperage Flat Position</u>	<u>Amperage Vertical & Overhead</u>
3/32	24-28	70-85	65-75
1/8	26-30	85-110	80-90
5/32	28-32	110-140	100-120
3/16	28-32	120-160	110-130

Application

E430-16 is highly resistant to chemical corrosion and to oxidation up to 300°F. It can be used for welding type 430 steel and type 410 when the Chromium content of the plate is on the high side.

