

Universal Wire Works E81T1-B2 Flux Cored Carbon Steel Tubular Electrode

Category : Metal , Ferrous Metal , Carbon Steel

Material Notes:

Alloy 81T1-B2 is a low alloy steel flux cored wire for welding steels with 1.25% chrome and 0.50% molybdenum. This electrode is designed for single and multiple pass welding in all positions of steels subject to high temperature service such as ASTM A387 Gr. 11 plate and A335 P11 pipe. This alloy is used extensively in the fabrication of boilers, heat exchangers, piping systems, and pressure vessels. This alloy exhibits welder appeal with excellent mechanical properties, low spatter, and easily removed fast freezing slag. Shielding Gas: 100% CO₂ @ 35-50 cfh Welding positions: All positions Information provided by Universal Wire Works for their line of welding wire and filler metal.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Universal-Wire-Works-E81T1-B2-Flux-Cored-Carbon-Steel-Tubular-Electrode.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	649 MPa	94200 psi	post-weld heat-treated
Tensile Strength, Yield	581 MPa	84200 psi	
Elongation at Break	20 %	20 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	1.06 %	1.06 %	
Iron, Fe	97.3 %	97.3 %	As Remainder
Manganese, Mn	0.81 %	0.81 %	
Molybdenum, Mo	0.45 %	0.45 %	
Phosphorous, P	0.011 %	0.011 %	
Silicon, Si	0.28 %	0.28 %	
Sulfur, S	0.015 %	0.015 %	

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