

## Universal Wire Works ER90SB-9 Steel Welding Wire

Category : Metal , Ferrous Metal , Stainless Steel

**Material Notes:**

Universal 90S-B9 is used primarily for welding the higher chromium alloyed 9CrMoNbV steels A213 (T-91), A335 (p-91), A387 (Gr-91) used where elevated temperatures and pressures are required. The advantages of this alloy are improved toughness and better creep properties, which ultimately allow for higher steam temperatures and the use of thinner piping materials. Due to the higher elevated temperature properties of this alloy, components that are now fabricated from stainless and ferritic steels may be fabricated from a single alloy, eliminating problems that are associated with dissimilar welds. Preheat/Interpass Temp. 300/500°F 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-ER90SB-9-Steel-Welding-Wire.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-ER90SB-9-Steel-Welding-Wire.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	621 MPa	90000 psi	AR-5% O2
Tensile Strength, Yield	414 MPa	60000 psi	AR-5% O2
Elongation at Break	16 %	16 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.070 - 0.13 %	0.070 - 0.13 %	
Chromium, Cr	8.0 - 9.5 %	8.0 - 9.5 %	
Copper, Cu	0.20 %	0.20 %	
Iron, Fe	86.1 - 88.3 %	86.1 - 88.3 %	As Remainder
Manganese, Mn	1.25 %	1.25 %	
Molybdenum, Mo	0.80 - 1.1 %	0.80 - 1.1 %	
Nickel, Ni	1.0 %	1.0 %	
Niobium, Nb (Columbium, Cb)	0.020 - 0.10 %	0.020 - 0.10 %	
Nitrogen, N	0.030 - 0.070 %	0.030 - 0.070 %	
Phosphorous, P	0.010 %	0.010 %	
Silicon, Si	0.15 - 0.30 %	0.15 - 0.30 %	
Sulfur, S	0.010 %	0.010 %	
Vanadium, V	0.15 - 0.25 %	0.15 - 0.25 %	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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