

Universal Wire Works 80SD-2 Steel Welding Wire

Category : Metal , Ferrous Metal , Carbon Steel

Material Notes:

Universal 80SD-2 is a manganese, molybdenum, silicon low alloy steel wire producing weld deposits of unusually high strength, ductility and impact properties. This alloy was developed for the welding of medium carbon and sulphur bearing free machining steels. When MIG welding use CO2 shielding gas. The amounts of manganese and silicon in this alloy provide good salvaging action in the weld pool resulting in sound, porosity-free weld. 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-80SD-2-Steel-Welding-Wire.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	710 MPa	103000 psi	
Tensile Strength, Yield	641 MPa	93000 psi	
Elongation at Break	23 %	23 %	
Charpy Impact	75.9 J	56.0 ft-lb	
	@Temperature -51.1 °C	@Temperature -60.0 °F	
	97.6 J	72.0 ft-lb	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.11 %	0.11 %	
Iron, Fe	96.8 %	96.8 %	As Remainder
Manganese, Mn	1.92 %	1.92 %	
Molybdenum, Mo	0.50 %	0.50 %	
Nickel, Ni	0.020 %	0.020 %	
Phosphorous, P	0.012 %	0.012 %	
Silicon, Si	0.65 %	0.65 %	
Sulfur, S	0.017 %	0.017 %	

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