Overview

American Welding Society

Welding Distributor Men



	and flatter than those produced by 6012. This electrode was primarily designed to provide good wetting and shallow penetration for thin sheet metal applications (using smaller diameter electrodes), but with sufficient penetration for welding medium gauge steel. As a result, 6013 is an all-purpose electrode that provides a soft, steady arc that is easily regenerated, easy slag control for vertical-down welding, low spatter and a beautiful bead appearance. 6013 electrodes may be used in any position with AC or DC (straight or reverse polarity).		
Features/Benefits	 Runs on all polarities AC and DC Excellent out-of-position Can be run holding an arc or in the drag mode 	 Easy slag release Operates well on low open circuit machines Excellent for filling holes and bridging gaps 	
Applications	Galvanized steelsSheet metalPipe and tubing	 All mild steels Tanks and container frames Truck bodies	
Method of Application	AC/DC arc welder		
Identification	Printed electrode		
Directions for Use	Set welder for AC, DC reverse or DC straight polarity. For thin metals, DC straight polarity is recommended. Operate by holding a short arc or using the drag technique. Weld using stringer or weave beads. Remove slag after each pass.		

Typical Welding	DCEP		
Procedures	Diameter	Amps (Flat)	
	3/32"	50 – 100	
	1/8"	80 – 130	
	5/32"	130 – 180	
	3/16"	180 – 230	
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Procedures may vary with change in position, base metals, filler metals, equipment and other changes.





Weld Metal 70, 000 63, 000 29.7%

58 ft./lbs.

Technical Specifications

ANSI/AWS A5.1: E6013 ASME SFA 5.1: E6013

Typical Weld	AWS values are minimum		
Metal Properties		AWS Spec.	
	Tensile Strength (PSI)	60, 000	
	Yield Strength (PSI)	48,000	
	Elongation	17%	
	Charpy V-notch at –20°F	N/A	

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