

Sureweld 6013

Sureweld 6013 is an all-position electrode. The arc is very stable even when low-voltage open circuit transformers are used. The power of its arc allows depositing quick welds, medium penetration, and good appearance. Sureweld 6013 eliminates the risk of trapping the slag due to its special characteristics and mineral coating. Sureweld 6013 is used on a wide array of mild steel fabrication where ease of operation and good appearance is required. Sureweld 6013 is recommended for welding vehicle bodies, profiles, tanks, ducts chassis, freight cars, ornamental jobs and thin-sheet structures.

Classifications:	AWS A5.1:E6013
Approvals:	CWB CSA W48: E4913
Industry or Segmentation:	Industrial and General Fabrication, Mobile Equipment, Ship/Barge Building

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Reduction in Area	Elongation
As Welded	482 MPa (70 ksi)	558 MPa (81 ksi)	55 %	27 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As Welded	0 °C (32 °F)	47 J (35 ft-lb)

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	V
0.10	0.60	0.50	0.030	0.035	0.30	0.20	0.20	0.05

Deposition Data

Diameter	Amps	Deposition Rate	Efficiency (%)
2.4 mm (3/32 in.)	60-90 A	0.7 kg/h (1.6 lb/h)	73 %
3.2 mm (1/8 in.)	120-135 A	1 kg/h (2.1 lb/h)	73 %
4.0 mm (5/32 in.)	145-190 A	1.2 kg/h (2.6 lb/h)	75 %
4.0 mm (5/32 in.)	145-190 A	1.45 kg/h (3 lb/h)	74 %