

Atom Arc 4340

Atom Arc 4340 is an all-position, iron powder, low hydrogen electrode developed for the welding of heat-treatable, high strength steels such as SAE 4130, 4330, 4340 and steel castings with similar hardening properties. Weld metal responds to heat treatment similar to 4340 base metal and is intended for use only in postweld heat treated applications.

Specifications	
Classifications	No AWS Classification

Welding Current	C, DC+	
Diffusible Hydrogen	< 4.0 ml/100g	
Alloy Type	Low alloyed (0.8% Cr - 1.8% Ni - 0.25% Mo)	

Typical Tensile Properties				
Condition Yield Strength		Tensile Strength	Elongation	
As Welded	951 MPa (138 ksi)	1040 MPa (151 ksi)	15 %	
As Welded	1179 MPa (171 ksi)	1303 MPa (189 ksi)	12 %	

Typical Weld Metal Analysis %							
С	Mn	Si	S	Р	Ni	Cr	Мо
0.35	0.85	0.50	0.014	0.011	1.80	0.80	0.25

Deposition Data					
Diameter	Current	Voltage	Deposition Efficiency	Burn-off Time	Deposition Rate @
4.8 x 356.0 mm	200-300 A	24.3 V	71.04 %	/Electrode 74 sec	90% I max 2.53 kg/h
(3/16 x 14.0 in.)	200 000 //	Z-1.5 V	71.04 //	7 + 300	(5.6 lbs/h)