

## Atom Arc 7028

Atom Arc 7028 is a high deposition, low hydrogen iron powder electrode intended for use on carbon and low alloy steels up to 70,000 psi tensile strength. Atom Arc 7028 is used for welding in the flat and horizontal positions.

### Specifications

<b>Classifications</b>	ASME SFA 5.1 : E7028 H8 AWS A5.1 : E7028 H8
<b>Industry</b>	Civil Construction Bridge Construction Heavy Equipment Ship/Barge Building

<b>Welding Current</b>	AC, DC+
<b>Diffusible Hydrogen</b>	< 8.0 ml/100g
<b>Alloy Type</b>	Carbon Manganese

### Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As Welded	515 MPa ( 75 ksi )	607 MPa ( 88 ksi )	29 %

### Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As Welded	-20 °C ( -4 °F )	60 J ( 44 ft-lb )
As Welded	-30 °C ( -22 °F )	52 J ( 38 ft-lb )

### Typical Weld Metal Analysis %

C	Mn	Si	S	P
0.05	1.2	0.5	0.009	0.014