



The Shielded Metal Arc Welding Process Basics

By [Anthony Nelson](#)

The shielded metal arc welding process, better known as arc welding or stick welding is used for ferrous and nonferrous metals. This type of welding process is easy to use because it is portable and you can weld in high windy conditions with out worrying about the shielding gas being blown away. It is used in all type of fabrication and repairs and a host of many other items. Arc welding temperatures can reach as high as 10,000 degrees F. The arc energy is provided by a power source that has AC or DC and or both, but not at the same time.

The electrodes that carry the current provide a gas that shields the arc from atmosphere and supplies filler metal to develop the weld. There are many terms associated with arc welding or stick welding and some are AC, alternating current, the current that flows in one direction and then reverses itself for the next half cycle.

Ampere, amps are the amount of current that flows through a current.

Conductor, means any material that allows the passage of an electrical current.

Direct current, is an electrical current that flows in on direction.

Electrical circuit, is a path taken by an electrical current flowing through a conductor from one source to load and then returning to the other terminal of source.

Polarity, is the direction of the flow of current in a circuit.

Resistance, is the opposition of the conductor to the flow of current.

And this is just the beginning of this monster welding process. If you like doing your own repairs, sculpting and many outside including inside welding this is a very effective way to weld, and very cost effective. You can buy a good AC/DC arc welding unit for less than \$300 and you could weld anything. Keep a look out for my next article about electrodes. Thanks and see you then.

Hello, and my name is Anthony and if you really want to learn all about welding then visit my website at <http://www.ebookcento.com/>

This book may be given to a third person as a gift but cannot be modified in any manner.

The rule have been established to protect the rights and ownership of the authors and to ensure that their work is upheld as their own