



Learn a Little About TIG

By [Anthony Nelson](#)

The goal to make a weld by Gas Shielded Tungsten Arc welding is to protect the molten puddle from the atmosphere. Tungsten Arc welding produces a weld that is superior to those produced by metallic arc welding electrodes. This type of welding is very useful in welding aluminum but can be used in all types of welding. When you do gas shielded tungsten arc welding, you can weld in any position that will produce a high quality weld. Do you want to learn about welding careers?

When you do weld with this type of welding that we all know it as Tig, it will not produce no splatter because the metal is not transferred across the arc. The torch is designed to conduct both welding current and inert gas all in one. These torches can be cooled by air or water coolant, and most of the light gauge welding will be cooled by air. If you are using a water cooled unit then you will be welding mostly at 200 amps or more. Tig welders make great careers and are in high demand.

The electrode that is called a tungsten, this is where the arc is produced and it is non consumable. It will extend beyond the cup but not to far to lose the shielding gas. The sizes of the electrodes run in .040, 1/16, 3/32, and 1/8. They are either pure tungsten or alloyed. The torch will have a cap, o-ring, electrode, electrode collect, torch body, collect holder and nozzle. This type of welding will take both hand and foot.

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