

: TIG/MIG LONG CAP

In welding, a **long cap** (specifically known as a **long back cap**) is an essential consumable component exclusively used on **TIG (Tungsten Inert Gas) welding torches** to secure full-length tungsten electrodes. (Note: **MIG torches do not use back caps**; the term applies only to TIG setups, though complex pipe welding procedures often involve a "TIG root and MIG cap" pass sequence). [[1](#), [2](#), [3](#), [4](#), [5](#)]

Functional Role of a TIG Long Back Cap

- **Electrode Clamping:** Screws into the back of the torch head to apply pressure onto the collet, locking the tungsten electrode firmly into place. [[1](#), [2](#), [3](#), [4](#), [5](#)]
- **Gas Sealing:** Seals the back of the torch body to prevent atmospheric air from contaminating the argon shielding gas flow. [[1](#), [2](#), [3](#), [4](#), [5](#)]
- **Full-Length Storage:** Its extended design houses brand-new, standard 7-inch (175mm) tungsten electrodes without requiring you to cut them down