

The [WT20 1.6 x 150mm TIG Electrode](#) is a **2% Thoriated tungsten electrode** featuring a distinct **red tip** color code. It is designed primarily for **DC (Direct Current) TIG welding applications**. [\[1, 2, 3, 4\]](#)

## Technical Specifications

- **Material Composition:** ~98% Tungsten, ~2% Thorium Oxide (ThO<sub>2</sub>)
- **Diameter:** 1.6 mm (1/16 inch)
- **Length:** 150 mm (6 inches)
- **Color Code:** Red
- **Current Type:** DC (Direct Current), typically Operating up to **70–120 Amps** depending on the specific torch setup. [\[1, 2, 3, 4, 5\]](#)

## Core Benefits

- **Superior Arc Ignition:** The thorium addition lowers the electronic work function, providing exceptionally quick and stable arc starts.
- **Longevity:** It features a remarkably low consumption rate and high thermal resistance, maintaining its sharpened point through many arc cycles.
- **Contamination Resistance:** Offers high resistance against contamination from the weld pool. [\[1, 2, 3, 4, 5\]](#)

## Primary Applications

This size and formulation are optimized for thin to medium-gauge metals. It is widely used to weld: [\[1\]](#)

- Stainless steel
- Carbon and mild steels
- Nickel alloys
- Titanium
- Copper alloys [\[1, 2, 3, 4\]](#)