

ELITE Tungsten Electrodes

TIG Tungsten - 2% Thoriated Red - 10pk

A popular choice for their exceptional performance and reliability. These electrodes are highly durable and maintain a stable arc in various welding applications.

- **Superior Arc Stability:** 2% Thoriated electrodes provide a consistent and stable arc geometry, making them suitable for DC welding processes.
- **Greater Current Capacity:** Allowing the electrode to carry more heat and reduces the potential for tungsten inclusions over pure tungsten.
- **Longevity:** A good choice for higher amperage levels and work well with both transformer and inverter power sources.
- **Applications:** DC Welding on Carbon Steel, Stainless Steel, Nickel and Titanium alloys.



TIG Tungsten - 2% Thoriated Red - 10pk

Size	Length	Code
1.6mm	175mm	VTWETR1716
2.4mm	175mm	VTWETR1724
3.2mm	175mm	VTWETR1732

TIG Tungsten - 0.8% Zirconiated White - 10pk

A good choice for higher amperage levels and work well with both transformer and inverter power sources.

- **Excellent AC Performance:** 0.8% Zirconiated electrodes excel in AC welding applications, providing a stable arc with minimal contamination in the weld.
- **Clean Welds:** Achieve cleaner welds with reduced tungsten inclusions.
- **Stable Arc:** Zirconiated tungsten produce a very stable arc and resistant to tungsten splitting.
- **Balling Tip Welding:** Allows the welder to ball the tungsten for welding in aluminium welding to stabilize the arc and create a more evenly formed bead.
- **Applications:** Perform exceptionally well in applications involving aluminium and magnesium alloys.



TIG Tungsten - 0.8% Zirconiated White - 10pk

Size	Length	Code
2.4	175mm	VTWEZW1724
3.2	175mm	VTWEZW1732

TIG Tungsten - E3 Element Purple - 10pk

Containing rare earth elements this electrode is long-lasting as well as being better for the environment, they deliver clean precise welds in various applications.

- **Improved Arc Stability:** Universal and suitable for both AC and DC welding processes, ensuring consistent and reliable results with repeated arc striking maintaining a point.
- **Lower Radioactive Content:** With rare earth mixed oxides compared to thoriated electrodes, E3 is less harmful to the environment and not radioactive. Electrode temperature: Remains consistently low, which increases the current-carrying capacity and increases the service life of the electrode.
- **Applications:** Extremely versatile and an alternative for Thoriated and Zirconiated Tungsten Electrodes, making them ideal for almost all applications, including stainless steel, mild steel, aluminium, titanium and copper alloys.



TIG Tungsten - E3 Element Purple - 10pk

Size	Length	Code
1.6mm	175mm	VTWEEP1716
2.4mm	175mm	VTWEEP1724
3.2mm	175mm	VTWEEP1732

Selection Chart

Colour	TIG Mode	Tungsten Type	Applications
Red	DC welding	98% Tungsten, 2% Thorium	Carbon steel, stainless steel, nickel and titanium alloys
White	AC welding	99.2% Tungsten, 0.8% Zirconiated	Aluminium and magnesium alloys
Gold	DC welding	98.5% Tungsten, 1.5% Lanthanum	Carbon steel and stainless steel
Purple	Universal AC/DC welding	98.34% Tungsten, 1.5% Lanthanum, 0.08% Zirconium, 0.08% Yttrium	Almost all applications including stainless steel, mild steel, aluminium, titanium and copper alloys

Purple premium 'rare earth' tungsten replaces Thoriated (red tip), Zirconated (white), Lanthanated (gold) and other electrodes