BOSSWELD TECHNOLOGY

BOSSWELD TECHNOLOGY TUNGSTEN ELECTRODES



RARE EARTH

A premium, environmentally friendly, long life, high performance tungsten blend providing easy arc striking, smooth arc transfer and a low burn off rate.

Suitable for all applications of TIG welding, including DC and AC welding for non-alloyed and high-alloyed steel, copper, nickel, aluminium, titanium and magnesium alloys.

AWS A5.12: EWG
ISO 6848: WG



1.5% LANTHANATED

Excellent arc starting and re ignition characteristics with low burn off rates.

Suitable for DC and AC applications especially in medium to high current applications.

AWS A5.12-2009: EWLa-1.5
ISO 6848-2004: WL15



2% THORIATED

Contains a nominal 2wt-% thorium oxide (ThO2) evenly dispersed throughout. Provides resistance from weld pool contamination. Used for DC electrode negative, or straight polarity applications.

AWS A5.12-2009: EWTH-2
ISO 6848-2004: WL20



ZIRCONATED

Excellent performance in AC welding, especially under high load current. Balls up well with a stable arc, resulting in less tungsten permeation and good corrosion resistance. Resists contamination.

AWS A5.12-2009: EWZr-1*
ISO 6848-2004: WZ8



CERIATED

Performs best in DC welding at low current settings, while also proficient in AC and DC processes. Used for orbital tube and pipe manufacturing and thin sheet metals.

AWS A5.12-2009: EWCe-2
ISO 6848-2004: WC20

KEY FACTS

- Pack of 10
- Length 178mm
- Durability & long lifespan



DESCRIPTION

Bossweld Technology offers a diverse range of five distinct tungsten electrodes for welding applications. These include rare earth, 1.5% lanthanated, 2% thoriated, zirconated, and ceriated electrodes. Each type has specific properties and compositions tailored to meet various welding needs and requirements.

Tungsten electrodes are primarily made from pure tungsten or with specific additives to enhance certain characteristics. Tungsten has an extremely high melting point of 3,410 degrees Celsius, making it suitable for welding applications that involve high temperatures.

Tungsten is known for its excellent electrical conductivity, which allows for efficient current flow during welding, thereby enabling stable and controlled arcs. Tungsten electrodes need to be properly prepared by grinding the tip to a specific angle and shape before use. This helps ensure a stable arc and precise weld pool control.

PACKAGING & ORDERING INFORMATION

Color	Description	Size	Part Number
	Bossweld Technology 3% Rare Earth Tungsten 178mm (Pkt 10)	1.0mm	900340
		1.6mm	900341
		2.4mm	900342
		3.2mm	900343
	Bossweld Technology 1.5% Lanthanated Tungsten 178mm (Pkt 10)	1.6mm	900301
		2.4mm	900302
		3.2mm	900303
	Bossweld Technology 2% Thoriated Tungsten 178mm (Pkt 10)	1.0mm	900310
		1.6mm	900311
		2.4mm	900312
		3.2mm	900312
		4.0mm	900308
	Bossweld Technology Zirconated Tungsten 178mm (Pkt 10)	1.6mm	900320
		2.4mm	900321
		3.2mm	900322
	Bossweld Technology Ceriated Tungsten 178mm (Pkt 10)	1.6mm	900330
		2.4mm	900331
		3.2mm	900332