

TUNGSTEN ELECTRODES

E3® PRO*

The new generation



When precision, reliability, and safety are key factors in TIG welding, the 100 % thorium-free E3® PRO tungsten electrode is your first choice. The E3® PRO is the consistent refinement of the proven E3® – with an innovative, unique composition. The result: even more power, longer service life, and universal application possibilities.

Perfect ignition – every time: Easiest ignition, even in the low amp range – for clean starts without compromise.

Maximum service life: Longer service life means fewer electrode changes and greater productivity.

Unlimited applications: Whether manual or automated welding, AC or DC – the E3® PRO covers all applications and materials.

High-tech inside: The innovative manufacturing process, combined with the unique composition of rare earth oxides, produces an extremely fine, homogeneous structure and guarantees outstanding welding properties.

E3®*

The all-rounder



The environmentally friendly E3®, made from rare earths and proven over many years, is the tried-and-tested all-rounder among tungsten electrodes. Only the E3® PRO further optimizes its unique properties.

Excellent ignition: Its absolutely reliable ignition behavior and stable arc make the E3® interesting for automated processes as well.

Long service life: The consistently low electrode temperature increases the current carrying capacity and thus its service life.

Wide range of applications: Suitable for both DC and AC welding and for practically any metal.

WLa 10/15/20



Good ignition properties and service life: The higher the lanthanum content (WLa 20), the better the ignition properties. Their composition enables long service life.

Wide range of applications: Mainly used for welding unalloyed and high-alloy steels, aluminum, titanium, copper, and magnesium alloys. Also suitable for micro plasma welding.

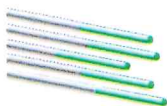
WCe 20



TIG electrode for medium and low current ranges: Its good ignition and reignition properties, as well as its good arc stability, make it ideal for thin sheet welding.

Areas of application with DC applications: Unalloyed and high-alloy steels, as well as nickel, copper, titanium, and aluminum alloys.

WP



High stability and melting point: The ideal electrode for alternating current welding with a high melting point and therefore good corrosion resistance. Not suitable for DC applications.

Special areas of application: Recommended for light metals such as aluminum, magnesium, and their alloys. In contrast to tungsten electrodes with doping elements, ignition and service life are lower.

WZr 08



Clean weld pool: The zirconium oxide contained in the product forms a stable dome and ensures that the molten bath is not contaminated.

Ideal for AC applications: Aluminum, magnesium, nickel, and their alloys are the main areas of application. It has poor ignition properties in DC welding.

*According to DIN EN ISO 6848

Tungsten electrodes per DIN EN ISO 6848

Characteristics	E3 [®] PRO gold-purple		E3 [®] purple		WLa 10 black		WLa 15 gold		WLa 20 blue		WCe 20 grey		WP green		WZr 08 white	
	+++	+++	+++	+++	+	+	++	++	+++	+++	+	+	+	+	-	-
Direct current minus pole	+++	+++	+++	+++	+	+	++	++	+++	+++	+	+	+	-	-	-
Alternating current	+++	+++	+++	+++	-	-	+	+	+	+	+	+	+	+	+	++
Arc stability	+++	+++	+++	+++	+	+	+	+	+++	+++	+	+	+	-	-	++
Ignitability	++++	++++	++++	++++	+	+	++	++	+++	+++	+	+	+	-	-	+
Lifetime	++++	++++	++++	++++	+	+	++	++	+++	+++	+	+	+	+	+	++
High alloy steels weldable	++++	++++	++++	++++	+	+	+++	+++	+++	+++	+++	+++	+++	-	-	-
Aluminum weldable	++++	++++	++++	++++	+	+	+	+	+	+	+	+	++	++	++	++

Length: 75 mm (10 pcs.)

Ø 1.0 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø 1.6 mm	-	-	700.0314.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø 2.0 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø 2.4 mm	-	-	700.0316.10	-	-	-	-	-	-	-	700.0218.10	-	-	-	-	-	-
Ø 3.2 mm	-	-	700.0317.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø 4.0 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Length: 150 mm (10 pcs.)

Ø 1.0 mm	700.0371.10	700.0295.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø 1.6 mm	700.0363.10	700.0297.10	-	-	-	-	-	-	700.0229.10	700.0176.10	700.0006.10	700.0006.10	700.0029.10	-	-	-	-
Ø 2.0 mm	700.0372.10	700.0298.10	-	-	-	-	-	-	700.0286.10	700.0181.10	700.0008.10	700.0008.10	-	-	-	-	-
Ø 2.4 mm	700.0364.10	700.0299.10	-	-	-	-	-	700.0280.10	700.0230.10	700.0175.10	700.0011.10	700.0011.10	700.0033.10	-	-	-	-
Ø 3.2 mm	700.0365.10	700.0301.10	-	-	-	-	-	-	700.0231.10	-	-	700.0015.10	-	-	-	-	-
Ø 4.0 mm	700.0374.10	700.0302.10	-	-	-	-	-	-	-	-	-	700.0017.10	-	-	-	-	-

Length: 175 mm (10 pcs.)

Ø 1.0 mm	700.0367.10	700.0304.10	700.0157.10	700.1183.10	700.0219.10	700.0166.10	700.0003.10	700.0028.10
Ø 1.6 mm	700.0360.10	700.0306.10	700.0158.10	700.1184.10	700.0220.10	700.0167.10	700.0007.10	700.0030.10
Ø 2.0 mm	700.0366.10	700.0307.10	700.0159.10	700.1185.10	700.0221.10	700.0168.10	700.0009.10	700.0032.10
Ø 2.4 mm	700.0361.10	700.0308.10	700.0160.10	700.1186.10	700.0222.10	700.0169.10	700.0012.10	700.0034.10
Ø 3.2 mm	700.0362.10	700.0310.10	700.0162.10	700.1187.10	700.0223.10	700.0170.10	700.0016.10	700.0036.10
Ø 4.0 mm	700.0369.10	700.0311.10	700.0163.10	700.0255.10	700.0242.10	700.0171.10	700.0018.10	700.0037.10