



TUNGSTEN SELECTOR

Specifications Conform to AWS A5.12M/A5.12:2024
(ISO 6848:2015 MOD)

CK WORLDWIDE TUNGSTEN ELECTRODES



2% THORIATED (RED) EWTh-2/WT20

Principal Oxide: 1.7-2.2% Thorium Oxide

RADIOACTIVE. For DC TIG welding on steels, stainless steels, titanium alloys, nickel alloys, and copper alloys. Provides reliable arc starts and stable DC arc performance with moderate erosion resistance and current capacity. Use proper handling and grinding controls.

0.8% ZIRCONIATED (WHITE) EWZr-8/WZ8

Principal Oxide: 0.7- 0.9% Zirconium Oxide

NON-RADIOACTIVE. For AC TIG welding on aluminum and magnesium alloys. Maintains a clean, rounded tip profile and handles higher amperage than pure tungsten with reduced tungsten spitting. A good choice for applications where arc stability and contamination resistance are important.

1.5% LANTHANATED (GOLD) EWLā-1.5/WL15

Principal Oxide: 1.3 -1.7% Lanthanum Oxide

NON-RADIOACTIVE. A thorium-free option for DC TIG welding and many AC applications. Suitable for steels, stainless steels, titanium alloys, nickel alloys, copper alloys, aluminum, and magnesium. Offers reliable starts, stable arc control, low erosion, and a broad operating range.

2% CERIATED (GRAY) EWCe-2/WC20

Principal Oxide: 1.8-2.2% Cerium Oxide

NON-RADIOACTIVE. For low-amperage TIG welding where easy starts and consistent re-starts are important. Performs well on thin materials, small parts, and precision applications. Suitable for AC or DC welding on steels, stainless steels, aluminum, magnesium, titanium, nickel, and copper alloys.

PURE (GREEN) EWP/WP

Principal Oxide: None

NON-RADIOACTIVE. Traditional AC tungsten for aluminum and magnesium welding, primarily with transformer-based power sources. Forms a rounded ball easily, but has lower current capacity and a higher tendency to spit than alloyed tungsten. Best suited for low-to-medium amperage, non-critical applications.

2% LANTHANATED (BLUE) EWLā-2/WL20

Principal Oxide: 1.8 - 2.2% Lanthanum Oxide

NON-RADIOACTIVE. General-purpose tungsten for modern TIG welding on AC or DC. Suitable for steels, stainless steels, aluminum, magnesium, titanium, nickel, and copper alloys. Provides strong arc starts, consistent re-striking, stable arc performance, low erosion, and medium-to-high amperage capability.

LaYZr™ (CHARTREUSE) EWG

Principal Oxides: 15% Lanthanum, 0.08% Zirconium, 0.08% Yttrium Oxides

NON-RADIOACTIVE. CK's proprietary LaYZr™ tungsten is a premium rare-earth blend engineered for precision TIG welding, excellent low-amperage starts, and repeatable results across common welding applications. Known for stable tip geometry, smooth arc starts, low erosion, and dependable arc control, LaYZr™ delivers consistent performance on AC or DC without switching electrodes for every material. Performs well on steel, stainless steel, aluminum, magnesium, titanium, nickel, and copper alloys.

CKWORLDWIDE.COM



TUNGSTEN PART NUMBERS

Specifications Conform to AWS A5.12M/A5.12:2024
(ISO 6848:2015 MOD)

ISO 6848 COLOR CHART	SIZE		PART #	
	INCHES	MILLIMETERS	10-PIECE	3-PIECE
2% Thoriated Red <i>AWS A5.12 EWTh-2</i> <i>ISO 6848 WT20</i>	.020 x 7"	0.5 x 175mm	T0207GT2	
	.040 x 7"	1.0 x 175mm	T0407GT2	
	1/16 x 7"	1.6 x 175mm	T1167GT2	T1167GT2-3
	3/32 x 7"	2.4 x 175mm	T3327GT2	T3327GT2-3
	1/8 x 7"	3.2 x 175mm	T187GT2	T187GT2-3
	5/32 x 7"	4.0 x 175mm	T5327GT2	
0.8% Zirconiated White <i>AWS A5.12 EWZr-8</i> <i>ISO 6848 WZ8</i>	.020 x 7"	0.5 x 175mm	T0207GZ	
	.040 x 7"	1.0 x 175mm	T0407GZ	
	1/16 x 7"	1.6 x 175mm	T1167GZ	T1167GZ-3
	3/32 x 7"	2.4 x 175mm	T3327GZ	T3327GZ-3
	1/8 x 7"	3.2 x 175mm	T187GZ	T187GZ-3
	5/32 x 7"	4.0 x 175mm	T5327GZ	
1.5% Lanthanated Gold <i>AWS A5.12 EWL a-1.5</i> <i>ISO 6848 WL15</i>	.020 x 7"	0.5 x 175mm	T0207GL	
	.040 x 7"	1.0 x 175mm	T0407GL	
	1/16 x 7"	1.6 x 175mm	T1167GL	T1167GL-3
	3/32 x 7"	2.4 x 175mm	T3327GL	T3327GL-3
	1/8 x 7"	3.2 x 175mm	T187GL	T187GL-3
	5/32 x 7"	4.0 x 175mm	T5327GL	
2% Ceriated Gray <i>AWS A5.12 EWCe-2</i> <i>ISO 6848 WC20</i> <i>(Formerly Orange)</i>	.020 x 7"	0.5 x 175mm	T0207GC2	
	.040 x 7"	1.0 x 175mm	T0407GC2	
	1/16 x 7"	1.6 x 175mm	T1167GC2	T1167GC2-3
	3/32 x 7"	2.4 x 175mm	T3327GC2	T3327GC2-3
	1/8 x 7"	3.2 x 175mm	T187GC2	T187GC2-3
	5/32 x 7"	4.0 x 175mm	T5327GC2	
Pure Green <i>AWS A5.12 EWP</i> <i>ISO 6848 WP</i>	.020 x 7"	0.5 x 175mm	T0207G	
	.040 x 7"	1.0 x 175mm	T0407G	
	1/16 x 7"	1.6 x 175mm	T1167G	T1167G-3
	3/32 x 7"	2.4 x 175mm	T3327G	T3327G-3
	1/8 x 7"	3.2 x 175mm	T187G	T187G-3
	5/32 x 7"	4.0 x 175mm	T5327G	
2% Lanthanated Blue <i>AWS A5.12 EWL a-2</i> <i>ISO 6848 WL20</i>	.020 x 7"	0.5 x 175mm	T0207GL2	
	.040 x 7"	1.0 x 175mm	T0407GL2	
	1/16 x 7"	1.6 x 175mm	T1167GL2	T1167GL2-3
	3/32 x 7"	2.4 x 175mm	T3327GL2	T3327GL2-3
	1/8 x 7"	3.2 x 175mm	T187GL2	T187GL2-3
	5/32 x 7"	4.0 x 175mm	T5327GL2	
LaYZr™ Chartreuse <i>AWS A5.12 EWG</i> <i>ISO 6848</i>	.020 x 7"	0.5 x 175mm	T0207GTM	
	.040 x 7"	1.0 x 175mm	T0407GTM	
	1/16 x 7"	1.6 x 175mm	T1167GTM	T1167GTM-3
	3/32 x 7"	2.4 x 175mm	T3327GTM	T3327GTM-3
	1/8 x 7"	3.2 x 175mm	T187GTM	T187GTM-3
	5/32 x 7"	4.0 x 175mm	T5327GTM	

CK WORLDWIDE TUNGSTEN ELECTRODES