



Specifications Conform to AWS A5.12-2009 (ISO 6848; 2004 MOD)

# TUNGSTEN SELECTOR

CK WORLDWIDE TUNGSTEN ELECTRODES



## 2% THORIATED (RED) EWTh-2/WT20

*Principal Oxide: 1.7–2.2% Thorium Oxide*

RADIOACTIVE. Best for use in Direct Current (D/C) applications using transformer based constant current power sources. Best for use on non corroding steels, titanium alloys, nickel alloys, copper alloys. Good D/C arc starts and stability, medium erosion rate, medium amperage range, medium tendency to spit.

## 0.8% ZIRCONIATED (WHITE) EWZr-8/WZ8

*Principal Oxide: 0.7–0.9% Zirconium Oxide*

NON-RADIOACTIVE. Best for use in Alternating Current (A/C) for aluminum alloys and magnesium alloys using inverter or transformer based constant current power sources. Balls well, handles higher amperage than pure tungsten with less spitting, better arc starts and arc stability than pure tungsten.

## 1.5% LANTHANATED (GOLD) EWLa-1.5/WL15

*Principal Oxide: 1.3–1.7% Lanthanum Oxide*

NON-RADIOACTIVE. Best for use in Direct Current (D/C) as an alternative to 2% Thoriated using inverter or transformer based constant current power sources. Best for non corroding steels, titanium alloys, nickel alloys, copper alloys. Best D/C arc starts and stability, low erosion rate, wide amperage range, no spitting.

## 2% CERIATED (GREY) (FORMERLY ORANGE) EWCe-2/WC20

*Principal Oxide: 1.8–2.2% Cerium Oxide*

NON-RADIOACTIVE. Best for use in Alternating Current (A/C) or Direct Current (D/C) applications using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Good ignition and re-ignition properties, long service life, excellent arc stability. Low erosion rate, best at low amperage range, no spitting, good D/C arc starts and stability.

## PURE (GREEN) EWP/WP

*Principal Oxide: None*

NON-RADIOACTIVE. Good for use in Alternating Current (A/C) for aluminum alloys and magnesium alloys in low to medium amperage applications using transformer based constant current power sources only. Balls easy, tends to spit at higher amperages. Used for non-critical welds only.

## 2% LANTHANATED (BLUE) EWLa-2/WL20

*Principal Oxide: 1.8–2.2% Lanthanum Oxide*

NON-RADIOACTIVE. Best general purpose electrode for both Alternating Current (A/C) or Direct Current (D/C) using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Good arc starts and stability, medium to high amperage range, low erosion rate.

## LaYZr™ (CHARTREUSE) EWG

*Principal Oxides: 1.5% Lanthanum, 0.08% Zirconium, 0.08% Yttrium Oxides*

NON-RADIOACTIVE. Best for automated or robotic applications in Alternating Current (A/C) or Direct Current (D/C) due to low voltage tolerance (changes in tip to work piece distance) using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Very stable tip geometry, runs cooler than 2% Thoriated with longer life, low to medium amperage range. Very best low amperage starts.

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# TUNGSTEN PART NUMBERS

CK WORLDWIDE TUNGSTEN ELECTRODES

## TUNGSTEN ELECTRODES

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