

TUNGSTEN ELECTRODES

Lanthanated ▪ Ceriated ▪ WX Multi-Oxide

KEY FEATURES

Lanthanated Tungsten:

- Lanthanated tungsten has excellent arc starting, a low burnoff rate, good arc stability, and excellent re-ignition characteristics.
- Works best at medium to high amperage range.

Ceriated Tungsten:

- Ceriated tungsten has excellent arc starts at low amperages, improved arc stability, and reduced rate of burn-off.
- Works best at low amperage range.

WX Multi-Oxide Tungsten:

- The WX Multi-Oxide tungsten is made from a combination of non-radioactive oxides, and has good arc stability and electrode life. This type of tungsten typically runs cooler, and provides fast consistent arc starts.
- Works best low to medium amperage range.



CONFORMANCES

AWS A5.12/A5.12.2009:

AWS: EWLa-2 (Lanthanated) Colour Code: Blue
 AWS: EWCe-2 (Ceriated) Colour Code: Grey
 AWS: EWG (WX Multi Oxide) Colour Code: Purple

TYPICAL APPLICATIONS

Lanthanated Tungsten:

- Lanthanated electrodes are often used as a non-radioactive substitute for Thoriated tungsten.
- They work well on AC or DC applications.

Ceriated Tungsten:

- This product is popular in applications such as pipe fabricating, thin sheet metal work, and tasks involving small parts.
- These electrodes work best in lower amperage DC welding.

WX Multi-Oxide Tungsten:

- Can be used for both AC and DC applications.
- This product is a good substitute for Thoriated tungsten.

DIAMETERS / PACKAGING

Diameter In (mm)	Length In (mm)	Quantity per pack	Lanthanated Part Numbers	Ceriated Part Numbers	WX Multi Oxide Part Numbers
1/16 (1.6)	7" (178)	10 electrodes	CK3511-116	CK3512-116	CK3513-116
3/32 (2.4)	7" (178)	10 electrodes	CK3511-332	CK3512-332	CK3513-332
1/8 (3.2)	7" (178)	10 electrodes	CK3511-18	CK3512-18	CK3513-18

Safety Data Sheets (SDS) and safe use guides are available on our website at www.lincolnelectric.com

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application.

CUSTOMER ASSISTANCE POLICY

The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.