



Supplier of Welding Alloys

## Titanium and Zirconium TIG Wire

### Oxford Alloy® ZR 702 (Zirconium)

**SPECIFICATIONS**

AWS 5.24  
ASME SFA 5.24

**CLASSIFICATIONS**

AWS ERZr2  
UNS R60702

**DESCRIPTION / APPLICATION**

Oxford Alloy ERZR-2 is most widely used in the chemical processing industry. It is used in chemical processes that require alternate contact with strong acids and alkalis. Some of the major areas that Oxford Alloy ERZR-2 is used include heat exchangers, stripper columns, reactor vessels, pumps, valves, and corrosive media piping. This alloy has excellent corrosion resistance to many chemical solutions. It also has excellent resistance to corrosive attack in most organic and mineral acids, strong alkalis, and some molten salts. Oxford Alloy ERZR-2 can be machined, welded and fabricated using the same equipment and processes used in fabrication of stainless steel, nickel-based alloys and titanium. This alloy is most commonly welded by the gas tungsten arc welding (GTAW) technique. Other welding methods include metal arc gas welding (MAGW), plasma arc welding, electron beam welding and resistance welding. Oxford Alloy ERZR-2 cannot be welded directly to most other structural metals; the exceptions are titanium, vanadium and niobium.

Mechanical properties listed above are at room temperature (cold worked and annealed). \*Bend test are not applicable to material over 0.187 in. (4.75mm) in thickness.

**AWS Chemical Composition**

Zr+Hf	Hf	Fe+Cr	H	N	C	O
99.01 min	4.5 max	0.20 max	0.005 max	0.025 max	0.05 max	0.16 max

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 54,955 psi 379 MPa  
Yield strength: 30,015 psi 207 MPa  
Elongation: 16%

Please contact our sales department for more information at 800-562-3355 or 225-273-4800.

Data contained in this publication are typical of the products and properties described, but are not suitable for specifications.  
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