







CEWELD Zirconium Zr 702

TYPE	Filler metal for Gas Tungsten Arc welding of Zirconium and Zirconium alloys							
APPLICATIONS	Zirconium Zr 702 is used widely in many industries for process equipment. Major applications include pressure vessels, heat exchangers, piping, tanks, shafts, mixers, and other mechanical equipment; valves; pumps; spargers; trays; and tower packing							
PROPERTIES	<p>Zirconium often is chosen for its resistance to corrosion from most organic and inorganic acids, salt solutions, strong alkalis, and some molten salts. It is especially suitable in many sulfuric, nitric, hydrochloric, and acetic acid applications. Backup Shielding. Backup shielding protects the molten root of the weld on the first pass and blankets the solidified weld during subsequent passes until the root surface temperature stays below 600 degrees F. Backup shielding also should be used on the back surface of sheet or plate less than 1/4 in. thick to prevent oxidation. Gas Requirements. Welding-grade argon (99.999 percent purity) usually is chosen for primary, secondary, and backup shielding, as well as for purging. Argon provides excellent arc stability, and because it is heavier than air, it blankets the weld and provides protection. Helium or argon/helium mixtures sometimes are used for torch shielding if added penetration is desired. Argon and helium mixtures also are occasionally employed for backup shielding and purging, in which helium's low density can effectively purge blind spaces. Gas Purity. Argon usually is purchased to 99.998 percent purity with a guarantee of less than 5 parts per million (PPM) oxygen, moisture, or total hydrocarbons. The dew point at the gas supply should not be more than -60 degrees F (-51 degrees C).</p>							
CLASSIFICATION	AWS	A 5.24: ERZr2						
SUITABLE FOR	Welding Zirconium alloys in general but also for successfully weld zirconium to titanium, tantalum, niobium (columbium) and vanadium however the weld metal will be stringer and less ductile than the base metals.							
APPROVALS	No Approvals Found							
WELDING POSITIONS	<div></div>							
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Cr	H	N	O	Fe	Hf	Zr+Hf
	0.009	0.06	0.002	0.006	0.122	0.02	2.2	99.78
REDRYING TEMPERATURE	Not required							
GAS ACCORDING EN 14175	I1							



CEWELD Zirconium Zr 702

ZIRCONIUM ZR 702 1,6 X
1000MM

Type	KG/unit	EANCode
	1	8720663406682

ZIRCONIUM ZR 702 2,0 X
1000MM

Type	KG/unit	EANCode
	1	8720663406699

ZIRCONIUM ZR 702 2,4 X
1000MM

Type	KG/unit	EANCode
	1	8720663406705