

BAOJI TITANIUM WIRE INDUSTRY CO., LTD.

The King River Industrial Area, Meixian County, Baoji City, Shaanxi, 722306, P.R.China T +86 29 6885 9920 F +86 917 5721 555 W http://www.tiwire.com Contact Person: Leo Liu, M./Whatsapp: +86 134 0295 6312 Email: leo@tiwire.com



TIG/MIG SOLID TITANIUM WELDING WIRES/RODS



ERTi-1

American Welding Society

Type:	Solid Titanium Welding Wire Grade 1 (purest grade)						
Applications:	ERTi-1. Grade 1 is the lowest strength unalloyed (or Commercially Pure—CP) grade. Grade 1 is used in applications where ductility is paramount, such as explosive cladding, loose linings, expanded metal, and deep drawing applications. It is also used in electrolytic applications like coated anode substrates for production of chlorine and sodium chlorate.						
Properties:	The weld deposit is ductile and offers excellent corrosion resistance in oxidizing environments. The purity and corrosion resistance makes the alloy a preferred choice in many applications to prefend or solve problems. The wire is cleaned in a very special way to obtain porosity free and a ductile weld deposits.						
Classification:	AWS A 5.16: ER Ti 1 UNS: R50100 EN ISO 24034: STi-0100 DIN 1737: SG Ti 1						
Suitable for:	ER Ti-1 is the purest grade and is suitable for welding Titanium grade 1, 2, 3 and 4. With the restriction that the mechanical properties are much less than Grade 2, 3 and 4. The weld deposit is ductile and offers excellent corrosion resistance in oxidizing environments. This alloy finds his applications in chemical industry and offers excellent Weldabillity.						
Welding Positions:	PA PB PC PC PF PF PG						

WELD DEPOSIT WEIGHT %

С	0	N	Н	Fe	Al	V	Pd	Мо	Ni
<0.03	0.03-0.10	<0.012	<0.005	<0.08	_	_	_	_	_

MECHANICAL PROPERTIES

Heat Treatment	RP 0.2 (N/mm2)		A5 (%)	Im	Hardness		
			, ,	-20°C	-40°C	-60°C	HRc/HV
as welded	250	320		_	_	_	_

WELDING PARAMETERS/PACKING

	Packing		
Dia. (mm)	Length (mm)	Current (A)	kg/tube
1.2	1000		5
1.6	1000		5
2.0	1000		5
2.4	1000		5
3.0	1000		5

Note: Also available as spooled wire :0.8 mm, 1.0 mm and 1.2 mm (D-100 / D-200 / D-300)