CEWELD®

ERTi-1

CATEGORY	GMAW-GTAW Solid wires Solid Titanium welding wire Grade 1 (purest grade)					
ТҮРЕ						
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 prefered 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.					
APPROVALS	CE approved					
WELDING POSITIONS:	LPA PB PC F PF PF					

WELD DEPOSIT WEIGHT %

C	0	N	Н	Fe	Al V F	Pd
< 0.03	0.03-0.10	<0.012	<0.005	<0.08		

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	lmį	oact Energy (J) IS	O-V	Hardness
Treatment	(N/mm ²)	(N/mm ²)	(%)	-20°C	-40°C	-60°C	HRc / HV
as welded	250	320					

WELDING PARAMETERS / PACKING

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

REDRYING TEMPERATURE not required

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