

Need Metal? We get it! Titanium Welding Wire

ER Ti-7

Category BTWI-BPTW Solid wires

Type Solid drawn Titanium Grade 7 welding wire

Applications Grade 7 has the same mechanical properties as Grade 2. The 0.12 wt% palladium addition improves corrosion performance under mildly reducing conditions or where crevice or under-deposit corrosion is a problem. ERTi-7 can be considered for welding Grade 2 or 16 where improved corrosion performance is desired.

Properties The weld deposit is ductile and offers excellent corrosion resistance in oxidizing environments. The unique combination of mechanical strength and corrosion resistance makes the alloy a preferred choice in many applications to prevent or solve problems. The wire is cleaned in a very special way to obtain porosity free and a ductile weld deposit.

Classification AWS A 5.16: ER Ti 7

UNS: R52401

Suitable for Titanium grade 7, Grade 2, Grade 16

Welding positions:



Weld deposit weight %

C	O	N	H	Fe	Al	V	Pd
< 0.03	0.08 - 0.16	< 0.015	< 0.008	< 0.12	-	-	0.12 - 0.25

Mechanical properties

Heat Treatment	R _{P0,2} (N/mm ²)	R _m (N/mm ²)	A ₅ (%)	Impact Energy (J) ISO-V			Hardness HRc / HV
				-20°C	-40°C	-60°C	
as welded	275	400	20	--	--	--	--

Redrying temperature not required

Welding parameters / packing

Welding Parameters			Packing
Dia. (mm)	Length (mm)	Current (A)	kg / tube
1.0	914 -1000mm		5
1.2	914 -1000mm		5
1.6	914 -1000mm		5
2.0	914 -1000mm		5
2.4	914 -1000mm		5
3.2	914 -1000mm		5
4.0	914 -1000mm		5

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