

Need Metal? We get it! Titanium Welding Wire

ER Ti-2

Category BTWI-BPTW Solid wires

Type Solid Titanium welding wire

Applications ER Ti-2 is developed for welding Titanium grade 1, 2, 3 and 4. This alloy finds his applications in chemical industry and offers excellent Weldability.

Properties The weld deposit is ductile and offers excellent corrosion resistance in oxidizing environments. The unique combination of mechanical strenght and corrosion resistance makes the alloy a preferred choice in many applications to prehend 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 2

EN ISO 24034: S Ti 0120 (Ti 99,6)

Suitable for Titanium grade 1, 2, 3 and 4.

Welding positions:



Weld deposit weight %

| C | O | N | H | Fe | Ti |
|--------|--------|--------|---------|--------|-----|
| < 0.08 | < 0.25 | < 0.18 | < 0.013 | < 0.05 | rem |

Mechanical properties

| Heat Treatment | RP0,2 (N/mm2) | Rm (N/mm2) | A5 (%) | Impact Energy (J) ISO-V | | | Hardness HRc / HV |
|----------------|---------------|------------|--------|-------------------------|-------|-------|-------------------|
| | | | | -20°C | -40°C | -60°C | |
| AW | 275 | 395-540 | 20 | -- | -- | -- | -- |

Welding parameters / packing

| Welding Parameters | | | Packing |
|--------------------|-------------|-------------|-----------|
| Dia. (mm) | Length (mm) | Current (A) | kg / tube |
| 1.0 | 914-1000mm | | 5kgs |
| 1.2 | 914-2000mm | | 5-10kgs |
| 1.6 | 914-2000mm | | 5-10kgs |
| 2.0 | 914-2000mm | | 5-10kgs |
| 2.4 | 914-2000mm | | 5-15kgs |
| 3.0 | 914-2000mm | | 5-15kgs |
| 3.2 | 914-2000mm | | 5-15kgs |
| 3.5 | 914-2000mm | | 5-15kgs |
| 4.0 | 914-2000mm | | 5-15kgs |
| 4.5 | 914-2000mm | | 5-15kgs |
| 5.0 | 914-2000mm | | 5-15kgs |
| 6.0 | 914-2000mm | | 5-15kgs |

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