Technical Data Sheet
556T TIG Wire The Anodizer

TDS

Cronatron™ A LAWSON BRAND

American Welding Society
Welding Distributor Member

Overview

556T TIG Wire is a high-strength aluminum alloy used for joining common grades of aluminum. As shown below, its mechanical properties are similar to AWS ER5356.

Features/Benefits

- Welds most alloyed grades of aluminum
- Stronger than common ER4043 wire
- Excellent corrosion resistance, strength, toughness, workability and weldability

Applications

- Totally adaptable to any maintenance requirement
- Fills casting defects
- Builds up missing or broken sections
- Reinforces weak joints
- Repairs cracked castings
- Joins thick or thin members

Method of Application

AC high frequency

Identification

Flag tagged or stamped wire

Directions for Use

Set TIG machine on AC High Frequency. Strike an arc on a piece of copper and form a small ball on the end of the tungsten. Form a puddle on the base metal and add filler alloy to the leading edge. Proceed until weld is complete. Backfill all craters.

Technical Specifications

Tensile Strength: 45,000 PSI (310 MPa)
Yield Strength: 23,000 PSI (159 MPa)
Elongation: 14%
Density: .096 lbs./in^3
Gas: Argon/Helium

Technical Tips

556T TIG Wire develops the highest as-welded strength, nearly double that of ER4043. It offers an excellent combination of corrosion resistance, strength, toughness, workability and weldability. As a result, it is used in a wide variety of applications. 556T TIG Wire can be anodized.