

# Tru-Core® FC 81T-Ni2 Flux-Cored Welding Wire

**AWS E81T1-Ni2C H8**



Tru-Core® FC 81T-Ni2 is a low alloy steel electrode for gas shielded, flux cored arc welding of those carbon and low alloy steels requiring a minimum tensile strength of 80 ksi and good CVN values at temperatures of -40°F and lower. It operates with a smooth, small droplet mode that results in minimal spatter residue.

The welding wire has a unique characteristic in which the slag quickly solidifies to enable welding in various positions. It still provides the necessary flow and wetting properties for flawless bead geometry and tie-on, particularly in horizontal fillets.

**100% Made in the U.S.A. with American steel to meet "Buy America" Standards.**

## Manufacturing Advantages

- Any combination of all position welding
- Good welder appeal
- A minimum tensile strength of 80 ksi
- Good CVN values at lower temperatures
- Ability to weld on plate thicknesses from 1/4" to heavy plate sections
- Single and multi-pass weldments
- Lower diffusible hydrogen content for reduced risk of hydrogen-induced cracking
- Enhanced mechanical properties in welds for enhanced strength
- Smooth and stable arc characteristics for precise control during welding

## Welding Positions

All position welding is possible when using the correct shielding gas blends, welding process, and welding parameters.

## Shielding Gas Blends

- 100% CO<sub>2</sub>
- Flow rate: 35-45 CFH


## Applications

- Agricultural Equipment
- General Fabrication
- Heavy Equipment
- Pipe Welding
- Pressure Vessels
- Structural Steel
- Trailers

## Specifications

Meets or Exceeds:

- AWS A5.29: E81T1-Ni2C
- ASME SFA-A5.29: E81T1-Ni2C

 Made in America

## Storage

Welding wire should be stored in a dry, enclosed environment and in its originally sealed package.



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