Standard Arc® S-3   AWS ER70S-3, EM13K

DESCRIPTION
Standard Arc® S-3 is a copper-coated mild steel solid filler metal designed to extract maximum weld quality and user appeal from ER70S-3 wire. Careful attention to the manganese and silicon contents assure maximum deoxidation, flat bead profiles and low-sputter welds.

CHARACTERISTICS
Standard Arc® S-3 Copper-Coated Welding Wire supports your GMAW operations.
• Cast of 35" (.88m) to 55" (1.3m) and Helix below 1" (25.4mm) improve feedability and provide accurate wire positioning.
• Manufactured according to ISO9001:2008 quality standards
• Excellent arc starts, arc stability and feedability
• Minimal spatter and copper flaking
• Moderate de-oxidizers
• Excellent weld appearance and post weld cleaning

PRODUCED IN: Stillwater, Oklahoma

SPECIFICATIONS
Meets or exceeds:
• AWS A5.18: ER70S-3, AWS A5.18M: ER48S-3
• AWS A5.17: EM13K (1/16" dia. only)
• ASME SFA-5.18: ER70S-3
• MIL-E-23765/1: MIL-70S-3
• CWB W48-01: ER49S-3

APPLICATIONS
Well-suited for these applications:
• Low carbon killed and semi killed steel
• All metal transfer modes of GMAW
• Robotic, mechanized or semi-automatic welding
• Welding steel with light mill scale, light rust or thin oil
• Single and multi-pass weldments
• Pipe welding, structural steel and steel buildings
• Applications requiring a minimum 70,000 psi tensile strength

SHIELDING GAS BLENDS
Typical Application Shielding Gas Blends:
• 100% CO2
• 75-95% Argon/Balance CO2
• 95-98% Argon/Balance O2
• Flow Rate: 35-50 CFH

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

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

The information contained or otherwise referenced herein is presented only in “typical” without guarantee or warranty, and National Standard expressly disclaims any liability incurred from any reliance thereon. Typical data are obtained when welded and tested in accordance with AWS specifications. Specification, other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by National Standard LLC.
Standard Arc® S-6 AWS ER70S-6

DESCRIPTION
Standard Arc® S-6 is a mild steel filler wire containing a high combined total of manganese and silicon. The wire produces a smooth, uniform welding arc, which minimizes weld spatter and results in excellent bead appearance and high operator appeal.

CHARACTERISTICS
Standard Arc® S-6 supports your GMAW welding operations.

- Cast of 35 in. (.88m) to 55 in. (1.3m) and Helix below 1 in. (25.4mm) improve feedability and provide accurate wire positioning
- High Silicon content reduces the molten metal surface tension, resulting in flatter bead profiles

PRODUCED IN: Stillwater, Oklahoma

SPECIFICATIONS
Meet or exceeds:
- AWS A5.18: ER70S-6
- ASME SFA-5.18:ER70S-6

APPLICATIONS
Well-suited for these applications:
- Short circuit, globular, spray transfer and pulse welding
- Automatic or semi-automatic welding
- Welding steel with mill scale, rust or oil
- Single to multi-pass weld applications
- Applications requiring up to 88, 800 psi tensile strength
- Welding rimmed steels
- High current welding with oxygen rich atmospheres
- Low welding heat applications
- Higher travel speed welding

SHIELDING GAS BLENDS
Typical Application Sheilding Gas Blends:
- 100% CO2
- 75-95% Argon/Balance CO2
- 95-98% Argon/Balance O2
- Flow Rate: 35-50 CFH

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

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

The information contained or otherwise referenced herein is presented only in “typical” without guarantee or warranty, and National Standard expressly disclaims any liability incurred from any reliance thereon. Typical data are obtained when welded and tested in accordance with AWS specifications. Specification, other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by National Standard LLC.