

Diameter: .072

AWS D1.8 Seismic Certificate of Conformance

This is to certify that the product stated below is of the same classification, manufacturing process, and material requirements as the electrode used for the testing on the date stated. All tests required by the specifications for classification were performed and the material met all requirements. It was manufactured and supplied according to the quality management system of Select-Arc, Inc., which meets the requirements of ISO 9001 and other applicable specifications. This certificate complies with the requirements of EN 10204, Type 2.2.

Product: Select 78

Test Completion Date: 4/5/2018

Diameter(s): .072

Lot Numbers: (.072) 5717

Specifications: AWS D1.8: 2016

Certificate Expiration Date: 4/5/2021

Classification: E71T-8

Weld Parameters - High Heat Input

| | |
|----------------------------|-------|
| Lot Number: | 5717 |
| Electrode Diameter: | .072 |
| Shielding Gas | N/A |
| Amperage: | 250.0 |
| Arc Voltage: | 21.0 |
| Current Polarity: | DCEN |
| CTWD (in): | 1 |
| No. of Passes/Layers: | 7/5 |
| Interpass Temperature(°F): | 450 |
| Heat Input Avg.(kJ/in.): | 77.1 |

Mechanical Properties - High Heat Input

| Lot Number: | | 5717 |
|-------------------------|-----------|------------|
| Shielding Gas | | N/A |
| Requirements | | Results |
| Test Condition: | As-Welded | As-Welded |
| PWHT Temperature: | - | - |
| Tensile Strength (psi): | 70000 min | 84000 |
| Yield Strength (psi): | 58000 min | 63000 |
| Elongation (%): | 22 min | 29 |
| Charpy V-Notch Impacts: | | 71, 72, 74 |
| ft-lb f @ 70°F | 40 avg. | 72 avg |
| Charpy V-Notch Impacts: | | 58, 54, 60 |
| ft-lb f @ 32°F | 40 avg. | 57 avg |

Weld Parameters - Low Heat Input

| | |
|----------------------------|-------|
| Lot Number: | 5717 |
| Electrode Diameter: | .072 |
| Shielding Gas | N/A |
| Amperage: | 290.0 |
| Arc Voltage: | 21.0 |
| Current Polarity: | DCEN |
| CTWD (in): | 1 |
| No. of Passes/Layers: | 15/6 |
| Interpass Temperature(°F): | 250 |
| Heat Input Avg.(kJ/in.): | 30.6 |

Mechanical Properties - Low Heat Input

| Lot Number: | | 5717 |
|-------------------------|-----------|------------|
| Shielding Gas | | N/A |
| Requirements | | Results |
| Test Condition: | As-Welded | As-Welded |
| PWHT Temperature: | - | - |
| Tensile Strength (psi): | 70000 min | 93000 |
| Yield Strength (psi): | 58000 min | 74000 |
| Elongation (%): | 22 min | 26 |
| Charpy V-Notch Impacts: | | 57, 58, 58 |
| ft-lb f @ 70°F | 40 avg. | 58 avg |
| Charpy V-Notch Impacts: | | 47, 49, 47 |
| ft-lb f @ 32°F | 40 avg. | 48 avg |

This product meets the requirements for a 2 week exposure at 80°F, 80% humidity (per Annex E of AWS D1.8:2016)

The undersigned certifies that the product supplied will meet the requirements of the applicable AWS Filler Metal Specification when tested in accordance with that specification.

Signed By: _____



Joshua S Westerheide, Quality Manager