



AWS D1.8 SEISMIC CERTIFICATION OF CONFORMANCE

Manufactured in the U.S.A. by :
SELECT-ARC, INC.
 600 Enterprise Dr.
 P. O. Box 259
 Fort Loramie, OH 45845

Supplied to :

Date:
 Customer Order Number:
 Order Number:
 Lot/ Production No. Shipped:
 Lot/ Production No. Tested: **7364L303A9705**
 Test No: 15089-5, 15089-6

This is to certify that **Select 70TR** electrode, classification **E70T-1C, T9C** as supplied on the above order number, is of the same classification, manufacturing process and material requirements as the electrode used for testing. All tests required by specifications **AWS D1.8/D1.8M:2009**, for wire diameter **3/32" and 100% CO2 Shielding Gas**, were performed in conformance with these specifications and the results met all requirements. The test results were as follows:

MECHANICAL PROPERTIES

AS WELDED STRESS RELIEVED (hr @ °F)

WELDING PARAMETERS:

HIGH HEAT INPUT:

Amperage: 440
 Arc Voltage: 33
 Current Polarity: DCEP
 Electrical Extension (in): 1.0
 Shielding Gas: 100CO₂
 No. of Passes/Layers: 9/4
 Preheat Temp (°F): 250 min.
 Interpass Temp (°F): 450 min.
 Heat Input Avg (kJ/in): 76
 Travel Speed (ipm): 10.7

LOW HEAT INPUT:

Amperage: 304
 Arc Voltage: 28
 Current Polarity: DCEP
 Electrical Extension (in): 1.0
 Shielding Gas: 100CO₂
 No. of Passes/Layers: 18/9
 Preheat Temp (°F): 120 max.
 Interpass Temp (°F): 250 max.
 Heat Input Avg (kJ/in): 35
 Travel Speed (ipm): 14.6

TEST RESULTS:

HIGH HEAT INPUT:

Tensile Strength (psi):
 Yield Strength (psi):
 Elongation (%):
 Avg Charpy Impact:
 ft•lb f @ 70°F:

LOW HEAT INPUT:

Tensile Strength (psi):
 Yield Strength (psi):
 Elongation (%):
 Avg Charpy Impact:
 ft•lb f @ 70°F:

REQUIREMENTS:

70,000 min
 58,000 min
 22 min
 40 min avg

REQUIREMENTS:

70,000 min
 58,000 min
 22 min
 40 min avg

RESULTS:

77,000
 60,500
 32
 76, 72, 72
 73 avg


RESULTS:

87,600
 75,600
 28
 49, 53, 50
 51 avg

This product meets the requirements for a 4 week exposure at 80°F, 80% humidity (per Annex D of AWS D1.8:2005)

This certification expires in October, 2017.

The undersigned certifies that the product supplied will meet the requirements of the applicable AWS Specification when tested in accordance with that specification, and that no significant change has been made in the formulations and manufacturing procedures described in the qualification approval.

Signed by: 

Ben A. Pletcher, Technical Director