

Diameter: .052

## 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 730

Test Completion Date: 11/14/2018

Diameter(s): .052

Lot Numbers: (.052) 1899 1900 1901

Specifications: AWS D1.8:2016

Certificate Expiration Date: 11/14/2021

Classification: E71T-1C, E71T-9C

### Weld Parameters - High Heat Input

Lot Number:	1899	1900	1901
Electrode Diameter:	.052	.052	.052
Shielding Gas	CO2	CO2	CO2
Amperage:	191.0	179.0	183.0
Arc Voltage:	26.0	26.0	26.0
Current Polarity:	DCEP	DCEP	DCEP
CTWD (in):	3/4	3/4	3/4
No. of Passes/Layers:	8/4	10/5	8/4
Interpass Temperature(°F):	450	450	450
Heat Input Avg.(kJ/in.):	71.6	72.2	70

### Mechanical Properties - High Heat Input

Lot Number:		1899	1900	1901
Shielding Gas		CO2	CO2	CO2
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	79000	78000	81000
Yield Strength (psi):	58000 min	67000	67000	71000
Elongation (%):	22 min	31	29	29
Charpy V-Notch Impacts:		115, 113, 112	68, 74, 63	125, 133, 121
ft-lb f @ 70°F	40 avg.	113 avg	68 avg	126 avg
Charpy V-Notch Impacts:		79, 91, 84	65, 71, 84	94, 92, 92
ft-lb f @ 32°F	40 avg.	85 avg	73 avg	93 avg

### Weld Parameters - Low Heat Input

Lot Number:	1899	1900	1901
Electrode Diameter:	.052	.052	.052
Shielding Gas	CO2	CO2	CO2
Amperage:	182.0	183.0	186.5
Arc Voltage:	25.0	25.0	25.0
Current Polarity:	DCEP	DCEP	DCEP
CTWD (in):	3/4	3/4	3/4
No. of Passes/Layers:	17/8	17/8	17/8
Interpass Temperature(°F):	300	250	250
Heat Input Avg.(kJ/in.):	31.9	31.5	31


### Mechanical Properties - Low Heat Input

Lot Number:		1899	1900	1901
Shielding Gas		CO2	CO2	CO2
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	84000	86000	87000
Yield Strength (psi):	58000 min	78000	80000	82000
Elongation (%):	22 min	29	29	29
Charpy V-Notch Impacts:		166, 157, 175	147, 139, 137	132, 135, 129
ft-lb f @ 72°F	40 avg.	166 avg	141 avg	132 avg
Charpy V-Notch Impacts:		127, 126, 133	116, 118, 125	114, 111, 116
ft-lb f @ 32°F	40 avg.	129 avg	120 avg	114 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