

## 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 70C-6LS  
Diameter(s): .052  
Specifications: AWS D1.8: 2016  
Classification: E70C-6M

Test Completion Date: 11/7/2017  
Lot Numbers: (.052) 1874 1875 1876  
Certificate Expiration Date: 11/7/2020

### Weld Parameters - High Heat Input

Lot Number:	1874	1875	1876
Electrode Diameter:	.052	.052	.052
Shielding Gas	90/10	90/10	90/10
Amperage:	375.0	375.0	346.0
Arc Voltage:	28.0	28.0	28.0
Current Polarity:	DCEP	DCEP	DCEP
Electrical Extension(in):	3/4	3/4	1
No. of Passes/Layers:	8/4	8/4	7/3
Interpass Temperature(°F):	450	450	450
Heat Input Avg.(kJ/in.):	70	70	70

### Mechanical Properties - High Heat Input

Lot Number:		1874	1875	1876
Shielding Gas		90/10	90/10	90/10
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	80000	79000	91000
Yield Strength (psi):	58000 min	68000	67000	84000
Elongation (%):	22 min	31	33	25
Charpy V-Notch Impacts:		114, 111, 108	116, 113, 116	83, 84, 83
ft*lb f @ 32°F	40 avg.	111 avg	115 avg	83 avg
Charpy V-Notch Impacts:		125, 114, 114	143, 144, 135	114, 109, 105
ft*lb f @ 70°F	40 avg.	118 avg	141 avg	109 avg

### Weld Parameters - Low Heat Input

Lot Number:	1874	1875	1876
Electrode Diameter:	.052	.052	.052
Shielding Gas	90/10	90/10	90/10
Amperage:	275.0	275.0	275.0
Arc Voltage:	27.0	27.0	27.0
Current Polarity:	DCEP	DCEP	DCEP
Electrical Extension(in):	3/4	3/4	1
No. of Passes/Layers:	21/7	20/6	19/6
Interpass Temperature(°F):	250	250	250
Heat Input Avg.(kJ/in.):	26	26	26

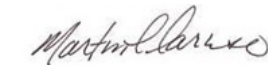
### Mechanical Properties - Low Heat Input

Lot Number:		1874	1875	1876
Shielding Gas		90/10	90/10	90/10
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	88000	88000	88000
Yield Strength (psi):	58000 min	81000	80000	79000
Elongation (%):	22 min	26	29	27
Charpy V-Notch Impacts:		82, 80, 72	84, 80, 83	75, 74, 76
ft*lb f @ 32°F	40 avg.	78 avg	82 avg	75 avg
Charpy V-Notch Impacts:		92, 93, 91	107, 103, 110	99, 95, 100
ft*lb f @ 70°F	40 avg.	92 avg	107 avg	98 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: \_\_\_\_\_



Martin L. Caruso, Director of Technology