

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 70C-6  
Diameter(s): .052  
Lot Class: ' T4 ' per AWS A5.01  
Specifications: AWS D1.8: 2016  
Classification: E70C-6M

Test Completion Date: 3/4/2020  
Lot Numbers: (.052) 2851 3174 5302  
Certificate Expiration Date: 3/4/2023

### Weld Parameters - High Heat Input

Lot Number:	2851	3174	5302
Electrode Diameter:	.052	.052	.052
Shielding Gas	90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
Amperage:	343.0	331.0	334.0
Arc Voltage:	29.5	29.5	29.5
Current Polarity:	DCEP	DCEP	DCEP
CTWD (in):	3/4	3/4	3/4
No. of Passes/Layers:	8/5	8/5	8/5
Interpass Temperature(°F):	450	450	450
Heat Input Avg.(kj/in.):	69.5	68.2	66.4

### Mechanical Properties - High Heat Input

Lot Number:		2851	3174	5302
Shielding Gas		90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
<b>Requirements</b>		<b>Results</b>	<b>Results</b>	<b>Results</b>
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	82000	78000	85000
Yield Strength (psi):	58000 min	67000	61000	68000
Elongation (%):	22 min	31	31	30
Charpy V-Notch Impacts:		115, 116, 120	62, 72, 69	77, 66, 49
ft-lb f @ 70°F	40 avg.	117 avg	68 avg	64 avg

### Weld Parameters - Low Heat Input

Lot Number:	2851	3174	5302
Electrode Diameter:	.052	.052	.052
Shielding Gas	90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
Amperage:	268.0	278.0	284.0
Arc Voltage:	26.5	26.5	26.5
Current Polarity:	DCEP	DCEP	DCEP
CTWD (in):	3/4	3/4	3/4
No. of Passes/Layers:	16/8	18/9	17/8
Interpass Temperature(°F):	250	250	250
Heat Input Avg.(kj/in.):	28.8	29	29.5

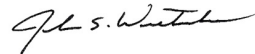
### Mechanical Properties - Low Heat Input

Lot Number:		2851	3174	5302
Shielding Gas		90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
<b>Requirements</b>		<b>Results</b>	<b>Results</b>	<b>Results</b>
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	85000	84000	85000
Yield Strength (psi):	58000 min	74000	71000	74000
Elongation (%):	22 min	29	29	30
Charpy V-Notch Impacts:		117, 123, 130	93, 93, 72	202, 157, 149
ft-lb f @ 70°F	40 avg.	123 avg	86 avg	169 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