

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

Test Completion Date: 3/10/2020

Diameter(s): .052

Lot Numbers: (.052) 2851 3174 5302

Lot Class: 'T4' per AWS A5.01

Certificate Expiration Date: 3/10/2023

Specifications: AWS D1.8: 2016

Classification: E70C-6M

### Weld Parameters - High Heat Input

Lot Number:	2851	3174	5302
Electrode Diameter:	.052	.052	.052
Shielding Gas	85%Ar / 15%CO2	85%Ar / 15%CO2	85%Ar / 15%CO2
Amperage:	330.0	338.0	341.0
Arc Voltage:	30.0	30.0	30.0
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.):	69.1	71	71.4

### Mechanical Properties - High Heat Input

Lot Number:		2851	3174	5302
Shielding Gas		85%Ar / 15%CO2	85%Ar / 15%CO2	85%Ar / 15%CO2
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	81000	78000	81000
Yield Strength (psi):	58000 min	65000	60000	63000
Elongation (%):	22 min	31	32	32
Charpy V-Notch Impacts:		125, 113, 122	66, 60, 59	83, 97, 87
	ft-lb f @ 70°F	40 avg.	120 avg	62 avg

### Weld Parameters - Low Heat Input

Lot Number:	2851	3174	5302
Electrode Diameter:	.052	.052	.052
Shielding Gas	85%Ar / 15%CO2	85%Ar / 15%CO2	85%Ar / 15%CO2
Amperage:	272.0	274.0	271.0
Arc Voltage:	27.0	27.0	27.0
Current Polarity:	DCEP	DCEP	DCEP
CTWD (in):	3/4	3/4	3/4
No. of Passes/Layers:	16/8	18/9	18/9
Interpass Temperature(°F):	250	250	250
Heat Input Avg.(kj/in.):	30.2	27.9	28

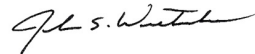
### Mechanical Properties - Low Heat Input

Lot Number:		2851	3174	5302
Shielding Gas		85%Ar / 15%CO2	85%Ar / 15%CO2	85%Ar / 15%CO2
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	84000	83000	86000
Yield Strength (psi):	58000 min	73000	71000	75000
Elongation (%):	22 min	30	28	30
Charpy V-Notch Impacts:		143, 137, 140	103, 105, 111	127, 121, 131
	ft-lb f @ 70°F	40 avg.	140 avg	106 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