

Diameter: .045

## 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: 4/23/2020
Diameter(s): .045	Lot Numbers: (.045) 2933 2998 3966
Lot Class: 'T4' per AWS A5.01	Certificate Expiration Date: 4/23/2023
Specifications: AWS D1.8: 2016	
Classification: E70C-6M	

### Weld Parameters - High Heat Input

Lot Number:	2933	2998	3966
Electrode Diameter:	.045	.045	.045
Shielding Gas	90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
Amperage:	286.0	274.0	275.0
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:	8/5	8/5	8/5
Interpass Temperature(°F):	450	450	450
Heat Input Avg.(kj/in.):	69.4	69.2	69.3

### Mechanical Properties - High Heat Input

Lot Number:		2933	2998	3966
Shielding Gas		90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	80000	78000	82000
Yield Strength (psi):	58000 min	64000	62000	64000
Elongation (%):	22 min	28	32	29
Charpy V-Notch Impacts:		68, 74, 75	72, 65, 88	71, 84, 75
ft-lb f @ 70°F	40 avg.	72 avg	75 avg	77 avg

### Weld Parameters - Low Heat Input

Lot Number:	2933	2998	3966
Electrode Diameter:	.045	.045	.045
Shielding Gas	90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
Amperage:	243.0	240.0	232.0
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:	18/9	18/9	18/9
Interpass Temperature(°F):	250	250	250
Heat Input Avg.(kj/in.):	28.8	28.4	28.9

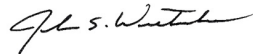
### Mechanical Properties - Low Heat Input

Lot Number:		2933	2998	3966
Shielding Gas		90%Ar / 10%CO2	90%Ar / 10%CO2	90%Ar / 10%CO2
Requirements		Results	Results	Results
Test Condition:	As-Welded	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-	-
Tensile Strength (psi):	70000 min	83000	85000	86000
Yield Strength (psi):	58000 min	71000	72000	73000
Elongation (%):	22 min	29	30	29
Charpy V-Notch Impacts:		131, 126, 130	111, 113, 95	108, 109, 103
ft-lb f @ 70°F	40 avg.	129 avg	106 avg	107 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