

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 730C

Test Completion Date: 8/4/2020

Diameter(s): .052

Lot Numbers: (.052) 3997 4156 5316

Lot Class: 'T4' per AWS A5.01

Certificate Expiration Date: 8/4/2023

Specifications: AWS D1.8:2016

Classification: E71T-1C, E71T-9C

Weld Parameters - High Heat Input

Lot Number:	3997	4156	5316
Electrode Diameter:	.052	.052	.052
Shielding Gas	CO2	CO2	CO2
Amperage:	201.0	201.0	202.0
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:	9/5	9/5	8/4
Interpass Temperature(°F):	450	450	450
Heat Input Avg.(kJ/in.):	70.6	71.7	75.9

Mechanical Properties - High Heat Input

Lot Number:		3997	4156	5316
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	82000	82000	79000
Yield Strength (psi):	58000 min	71000	70000	68000
Elongation (%):	22 min	29	29	31
Charpy V-Notch Impacts:		109, 116, 108	118, 124, 126	107, 99, 96
ft-lb f @ 70°F	40 avg.	111 avg	123 avg	101 avg
Charpy V-Notch Impacts:		75, 71, 80	101, 86, 87	71, 81, 82
ft-lb f @ 32°F	40 avg.	75 avg	91 avg	78 avg

Weld Parameters - Low Heat Input

Lot Number:	3997	4156	5316
Electrode Diameter:	.052	.052	.052
Shielding Gas	CO2	CO2	CO2
Amperage:	194.0	192.0	192.0
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:	16/8	16/8	16/8
Interpass Temperature(°F):	250	250	250
Heat Input Avg.(kJ/in.):	30.6	30.7	32.1

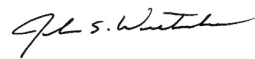
Mechanical Properties - Low Heat Input

Lot Number:		3997	4156	5316
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	83000	85000
Yield Strength (psi):	58000 min	74000	74000	75000
Elongation (%):	22 min	30	30	28
Charpy V-Notch Impacts:		136, 131, 134	135, 134, 138	114, 123, 122
ft-lb f @ 70°F	40 avg.	134 avg	136 avg	120 avg
Charpy V-Notch Impacts:		106, 122, 123	115, 103, 112	75, 71, 73
ft-lb f @ 32°F	40 avg.	117 avg	110 avg	73 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