

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	Test Completion Date: 7/17/2023
Diameter(s): 1/16	Lot Numbers: (1/16) 3301
Lot Class: 'T4' per AWS A5.01	Certificate Expiration Date: 7/17/2026
Specifications: AWS D1.8:2021	

Weld Parameters - High Heat Input

Lot Number:	3301
Electrode Diameter:	1/16
Shielding Gas	90%Ar / 10%CO2
Amperage:	327.0
Arc Voltage:	28.5
Current Polarity:	DCEP
CTWD (in):	5/8"
No. of Passes/Layers:	8/5
Interpass Temperature(°F):	500
Heat Input Avg.(kJ/in.):	69.4

Mechanical Properties - High Heat Input

Lot Number:		3301
Shielding Gas		90%Ar / 10%CO2
Requirements		Results
Test Condition:	As-Welded	As-Welded
PWHT Temperature:	-	-
Tensile Strength (psi):	70000 min	80000
Yield Strength (psi):	58000 min	65000
Elongation (%):	22 min	29
Charpy V-Notch Impacts:		99, 100, 97
ft-lb f @ 32°F	20 avg. min	98 avg
Charpy V-Notch Impacts:		117, 113, 120
ft-lb f @ 70°F	20 avg. min	117 avg

Weld Parameters - Low Heat Input

Lot Number:	3301
Electrode Diameter:	1/16
Shielding Gas	90%Ar / 10%CO2
Amperage:	302.0
Arc Voltage:	27.0
Current Polarity:	DCEP
CTWD (in):	3/4
No. of Passes/Layers:	14/7
Interpass Temperature(°F):	250
Heat Input Avg.(kJ/in.):	31.1

Mechanical Properties - Low Heat Input

Lot Number:		3301
Shielding Gas		90%Ar / 10%CO2
Requirements		Results
Test Condition:	As-Welded	As-Welded
PWHT Temperature:	-	-
Tensile Strength (psi):	70000 min	93000
Yield Strength (psi):	58000 min	81000
Elongation (%):	22 min	26
Charpy V-Notch Impacts:		68, 79, 73
ft-lb f @ 32°F	20 avg. min	73 avg
Charpy V-Notch Impacts:		93, 96, 97
ft-lb f @ 70°F	20 avg. min	95 avg

This product meets the requirements for a 2 week exposure at 80°F, 80% humidity (per Annex E of AWS D1.8)

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