SELECT ARC INC.

Manufactured In The USA

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800.341.5215

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: SelectAlloy 316L-AP

Diameter(s): .045 - 1/16

Specifications: AWS A5.22:2012

Classification: E316LT1-1, E316LT1-4

Test Completion Date: 12/19/2017

Lot Numbers: (.045) 0621

(1/16) 0621

Chemical Analysis (*wt%*)

Diameter			.045		1/16	
Shielding Gas			75-80% Ar / Bal CO2	CO2	75-80% Ar / Bal CO2	CO2
	Max	Min	Results	Results	Results	Results
C	0.04	-	0.04	0.04	0.04	0.04
Cr	20.00	17.00	17.76	17.65	17.74	17.53
Cu	0.50	-	0.07	0.07	0.07	0.07
Mn	2.50	0.50	1.82	1.60	1.94	1.68
Mo	3.00	2.00	2.49	2.49	2.49	2.51
Ni	14.00	11.00	12.61	12.71	12.60	12.71
P	0.040	-	0.017	0.017	0.016	0.016
S	0.030	-	0.003	0.003	0.002	0.002
Si	1.00	-	0.68	0.58	0.68	0.59

This product contains Bismuth at levels >.002 wt%

Radiographic Test: **Met Requirement**

Fillet Weld Test: **Met Requirement**

Bend Test: **Met Requirement**

Weld Parameters

Electrode Diameter:	1/16	
Shielding Gas	75-80% Ar / Bal CO2	CO2
Amperage:	213	207
Arc Voltage:	26.0	29.0
Current Polarity:	DCEP	DCEP
Electrical Extension(in):	5/8	5/8
No. of Passes/Layers:	14/7	13/6
Interpass Temperature(°F):	300	300

Mechanical Properties

Electrode Diameter:		1/16	
Shielding Gas		75-80% Ar / Bal CO2	CO2
Requirements		**Results**	**Results**
Test Condition:	As-Welded	As-Welded	As-Welded
PWHT Temperature:	-	-	-
Tensile Strength (psi):	70000 min	86000	82000
Yield Strength (psi):	-	61000	59000
Elongation (%):	30 min	41	41

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: Martin L. Caruso

Martin L. Caruso, Director of Technology