CERTIFICATE OF CONFORMANCE



Product: SuperArc® LA-75

Classification: AWS D1.5 ER80S-Ni1

Also meets the requirements of AWS D1.1 ER80S-Ni1

of EN10204, type 2.2. It does not meet the requirements of type 3.1.

reported to the nearest 5 degrees.

Date July 07, 2021

Operating Settings

This is to certify that the product named above is of the same classification(s) and design as the material used for the tests reported herein. The material was tested according to the specification(s) indicated and met all requirements. It was manufactured and supplied according to a Quality System Program that meets the requirements of ISO9001 among others as documented on The Lincoln Electric web page (http://www.lincolnelectric.com/en-us/company/Pages/certifications.aspx).

RESULTS

Electrode Size		.045" (1.1 mm)
Current Type/Polarity	DC+	DC+
Shielding Gas	Not Specified	92% Ar, 8% CO2
Nominal Voltage, V	Not Specified	30
Wire Feed Speed, cm/min (in/min)	Not Specified	1092 (430)
Nominal Current, A	Not Specified	310
Average Heat Input, kJ/mm (kJ/in)		1.5 (38.5)
Travel Speed, cm/min (in/min)	Not Specified	37 (14.5)
Contact Tip to Work Distance, mm (in)	Not Specified	19 (3/4)
Pass/Layers		15/6
Preheat Temperature, °C (°F)	(275 - 325)	135 (275)
Interpass Temperature, °C (°F)	(275 - 325)	135 (275)
Postweld Heat Treatment	As-welded	As-welded
Mechanical properties of weld deposits		
Tensile Strength, MPa (ksi)	(80 min.)	590 (86)
Yield Strength, 0.2% Offset, MPa (ksi)	(68 min.)	490 (71)
Elongation %	24 min.	27
Average Impact Energy	(20 min.)	150 (110)
Joules @ -46 °C (ft-lbs @ -50 °F)		144,149,156 (106,110,115)
Chemical composition of weld deposits (weight %)		
С	Info. Only	0.10
Ni	Info. Only	1.0
Mn	Info. Only	0.77
Si	Info. Only	0.44
S	Info. Only	0.009
P	Info. Only	0.007
Cr	Info. Only	0.12
Mo	Info. Only	0.02
V	Info. Only	<0.003
Zr	Info. Only	<0.001
Al	Info. Only	<0.001
Ti	Info. Only	<0.001
Cu	Info. Only	0.16

ER80S-Ni1

Requirements

July 07, 2021 July 07, 2021

Daniel Gaul, Certification Supervisor

Date

Jon Ogborn, Manager, Consumable Compliance

1. This document meets the requirements of AWS A5.01M/A5.01 Schedule G. When a specific lot number is referenced it also meets the requirements

2. Strength values in SI units are reported to the nearest 10 MPa converted from actual data. Preheat and interpass temperature values in SI units are

Date