WEI DING CONSUMABLE CERTIFICATE



Certificate No.: 872433-5916600-001	
Report No.: 5916600	
Port of: Cleveland, Ohio	
Defe: 24 July 2023	

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF LINCOLN ELECTRIC COMPANY, ATTEND THEIR PLANT AT CLEVELAND, OHIO, ON THE 22ND DAY OF JUNE, 2023 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE SUBMERGED ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
10.00	The second second		<u>0710</u>	1 00111011	DCEP	.035"-3/16"
Lincolnweld	AWS A5.17	F7A2-EM 13K-H4			DCEP	.033 -3/10
L50/960		777 10 FT 10 TT0			DOED	5/CAU 7/20U
Lincolnweld	AWS A5.17	F7A2-EL 12-H8			DCEP	5/64"-7/32"
L60/761						
Lincolnweld	AWS A5.17	F7A0-EL 12-H8			DCEP	1/16"-3/16"
L60/780						
Lincolnweld	AWS A5.17	F6A2-EL 12-H4			DCEP	5/64"-7/32"
L60/860						
Lincolnweld	AWS A5.17	F7A2-EM 12K-H8			DCEP	1/16"-3/16"
L61/761						
Lincolnweld	AWS A5.17	F7A2-EM 12K-H8			DCEP	1/16"-3/16"
L61/780						
Lincolnweld	AWS A5.17	F7A2-EM 12K-H8			DCEP	1/16"-3/16"
L61/860						
Lincolnweld	AWS A5.17	F7A6-EM 12K-H8			DCEP	1/16"-3/16"
L61/882	11 (15 115.17	1 /110 1111 1111 110				
Lincolnweld	AWS A5.17	F7A2-EM 12K-H8			DCEP	1/16"-3/16"
L61/960	AWS AJ.17	1 /AZ-EWI 12K-110			DOL	1/10 5/10
Lincolnweld	AWS A5.9	ER309/ ER309L			DCEP	5/64"-5/32"
309/309L	A W 5 A 5.9	ERSON ERSON			DCLI	3701 3732
Lincolnweld	AWS A5.9	ER316/ ER316L			DCEP	5/64"-5/32"
	A W S A 3.9	EK310/ EK310L			DCLI	3/04 -3/32
316/316L	A W/G A 5 O	ED200/ED2001			DCEP	5/64"-5/32"
Lincolnweld	AWS A5.9	ER308/ ER308L			DCEP	3/04 -3/32
308/308L	The Committee of the Co				D 022	00011 0/1 (11
Lincolnweld	AWS A5.9	ER310			DCEP	.030"-3/16"
310						

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Materials Manufacturer Approval Audits CLS-PRI-00826

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Lincolnweld	AWS A5.9	ER347	DCEP	.030"-3/16"
Lincolnweld 2209	AWS A5.9	ER2209	DCEP	.030"-1/8"
Lincolnweld ER308/308LCF	AWS A5.9	ER308/308L		1/16",1/8", 3/32"
Lincolnweld ER316/316LCF	AWS A5.9	ER316/316L		1/16",1/8", 3/32"



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WELDING CONSUMABLE CERTIFICATE



Certificate No.: 872433-5916600-002	
Report No.: 5916600	
Port of Cleveland, Ohio	
Date: 24 July 2023	

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF LINCOLN ELECTRIC COMPANY, ATTEND THEIR PLANT AT CLEVELAND, OHIO, ON THE 22ND DAY OF JUNE, 2023 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE SHIELDED METAL ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
Murex 6011C	AWS A5.1	E6011	<u>0/10</u>	All	AC, DCEP	3/32"-3/16"
Excalibur 7018-A1	AWS A5.5	E7018-A1-H4R		All		
MR	A W S A S . S	E/018-A1-H4K		All	AC, DCEP	3/32"-5/52"
Excalibur 8018-C3	AWS A5.5	E8018-C3-H4R		All	AC, DCEP	3/32"-1/4"
MR						
Excalibur 9018M	AWS A5.5	E9018M-H4R		All	DCEP	3/32"-3/16"
MR						
Excalibur 11018M	AWS A5.5	E11018M-H4R		All	DCEP	3/32"-3/16"
MR						
Fleetweld 35	AWS A5.1	E6011		All	AC, DCEP	3/32"-1/4"
Fleetweld 37	AWS A5.1	E6013		All	AC, DCEN	1/16"-3/16"
Fleetweld 47	AWS A5.1	E7014		All	AC, DCEN	3/32"-3/16"
Fleetweld 5P+	AWS A5.1	E6010		All	DCEP	3/32"-3/16"
Fleetweld 5P	AWS A5.1	E6010		All	DCEP	3/32"-1/4"
Jet - LH78 MR	AWS A5.1	E7018		All	DCEP	3/32"-1/4"
Jetweld 1	AWS A5.1	E7024-1		All	AC, DCEN	3/32"-1/4"
Jetweld LH-70	AWS A5.1	E7018		All	DCEP	3/32"-1/4"
Shield Arc 70+	AWS A5.5	E8010-G		All	DCEP	1/8"-3/16"
Shield Arc 85	AWS A5.5	E7010-A1		All	DCEP	3/32"-3/16"
Shield-Arc HYP+	AWS A5.5	E7010-P1		All	DCEP	1/8"-3/16"
Pipeliner 6P+	AWS A5.1	E6010		All	DCEP	2.5mm-5.0mm
Pipeliner 7P+	AWS A5.5	E7010-P1		All	DCEP	3.2mm-5.0mm
Pipeliner 8P+	AWS A5.5	E8010-P1		All	DCEP	3.2mm-5.0mm
Pipeliner 16P	AWS A5.1	E7016-H4		All	AC, DCEP	2.5mm-4.0mm
Pipeliner LH-D80	AWS A5.5	E8045-P2 H4R		All	DCEP	3.2mm-4.5mm
Pipeliner LH-D90	AWS A5.5	E9045-P2 H4R		All	DCEP	3.2mm-4.5mm

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Materials Manufacturer Approval Audits CLS-PRI-00826

Pipeliner LH-D100	AWS A5.5	E10045-P2 H4R	All	DCEP	3.2mm-4.5mm
Excalibur 308L-16	AWS A5.4	E308L-16	All	DCEP	3/32"-3/16"
Excalibur 308/	AWS A5.4	E308-15/	All	DCEP	3/32"-1/8"
308L-15		E308L-15			
Excalibur 308/	AWS A5.4	E308-16/	All	DCEP	3/32"-3/16"
308H-16		E308H-16			
Excalibur 308/	AWS A5.4	E308-17/	All	AC, DCEP	3/32"-3/16"
308L-17		E308L-17			
Excalibur 309/	AWS A5.4	E309-15/	All	DCEP	3/32"-1/8"
309L-15		E309L-15			
Excalibur 309/	AWS A5.4	E309-16/	All	DCEP	3/32"-3/16"
309L-16		E309L-16			
Excalibur 309/	AWS A5.4	E309-17/	All	AC, DCEP	3/32"-3/16"
309L-17		E309L-17			
Excalibur 316/	AWS A5.4	E316-15/	All	DCEP	3/32"-1/8"
316L-15		E316L-15			
Excalibur 316/	AWS A5.4	E316-16/	All	DCEP	3/32"-3/16"
316L-16		E316L-16			
Excalibur 316/	AWS A5.4	E316-17/	All	AC, DCEP	3/32"-3/16"
316L-17		E316L-17			



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WELDING CONSUMABLE CERTIFICATE



Certificate No.: 872433-5916600-003	_
Report No.: 5916600	_
Port of. Cleveland, Ohio	_
Date: 24 July 2023	

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF LINCOLN ELECTRIC COMPANY, ATTEND THEIR PLANT AT CLEVELAND, OHIO, ON THE 22ND DAY OF JUNE, 2023 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE FLUX CORED ARC WELDING SECTION:

TRADE <u>NAME</u>	SPECIFICATION	GRADE OR CLASS	SHIELDING <u>GAS</u>	POSITION	CURRENT/ POLARITY	SIZE
Innershield NR-207	AWS A5.29	E71T8-K6		All, V-Down	DCEP	.068"-5/64"
Innershield NR-211 MP	AWS A5.20	E71T-11		All	DCEN	.030"-3/32"
Innershield NR-305	AWS A5.20	E70T-6-H16		Flat	DCEP	3/32"
Innershield NR-311	AWS A5.20	E70T-7		F, H	DCEN	5/64"-7/64"
Outershield 91K2-H	AWS A5.29	E91T1-K2M- H8	75%Ar-25%CO2	Flat	DCEP	1/16"052"
Innershield NR- 211MP-RSP	AWS A5.20	E71T-11		All	DCEN	.030", .035", .045"
Innershield NR-233	AWS A5.20-05	E71T-8-H16		All	DC-	1/16"-5/64"
Innershield NR-233	AWS A5.20-05	E71T-8-H10		Flat	DCEN	5/64"
Pipliner NR-207+	AWS A5.29	E71T8-K6		All, V-Down	DCEP	5/64"
Pipliner G90M	AWS A5.29	E111T1- K3MJ-H8		All	DCEP	1.2mm



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WELDING CONSUMABLE CERTIFICATE



Certificate No.: 872433-5916600-004	
Report No.: 5916600	_
Port of. Cleveland, Ohio	
Date: 24 July 2023	

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF LINCOLN ELECTRIC COMPANY, ATTEND THEIR PLANT AT CLEVELAND, OHIO, ON THE 22ND DAY OF JUNE, 2023 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE GAS METAL ARC WELDING INCLUDING MIG/TIG WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	<u>SIZE</u>
7. N. M.			GAS			
Blue Max MIG	AWS A5.9	ER308/		All	DCEP	.030"-3/16"
308L	13.00	ER308L				
Blue Max MIG	AWS A5.9	ER309/		All	DCEP	.030"-3/16"
309L		ER309L				
Blue Max MIG 310	AWS A5.9	ER310		All	DCEP	.030"-3/16"
Blue Max MIG	AWS A5.9	ER316/		All	DCEP	.030"-3/16"
316L		ER316L				
Blue Max MIG 347	AWS A5.9	ER347		A11	DCEP	.030"-3/16"
Blue Max MIG	AWS A5.9	ER2594	Argon	All	DCEP	.030"-3/16"
2594						
Blue Max MIG	AWS A5.9	ER308Si/		All	DCEP	.030"-3/16"
308LSi		ER308LSi				
Blue Max MIG	AWS A5.9	ER309Si/		All	DCEP	.030"-3/16"
309LSi		ER309LSi				
Blue Max MIG	AWS A5.9	ER316Si/		All	DCEP	.030"-3/16"
316LSi		ER316LSi				
Blue Max MIG	AWS A5.9	ER2209		All	DCEP	.030"-1/8"
2209						
Blue Max	AWS A5.9	ER316/		All	DCEP	.030"-3/16"
Orbital TIG		ER316L				
316L						
Lincoln	AWS A5.9	ER2594		All	DCEP	.030"-3/16"
ER2594						
Lincolnweld	AWS A5.9	ER2594		All	DCEP	.030"-3/16"
2594						
Lincoln	AWS A5.9	ER308/ER308L		All	DCEP	.030"-3/16"
ER308/308L						

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Materials Manufacturer Approval Audits CLS-PRI-00826

Lincoln ER309/309L	AWS A5.9	ER309/ER309L		All	DCEP	.030"-3/16"
Lincoln ER310	AWS A5.9	ER310		All	DCEP	.030"-3/16"
Lincoln	AWS A5.9	ER316/ER316L		All	DCEP	.030"-3/16"
ER316/316L						
Lincoln ER347	AWS A5.9	ER347		All	DCEP	.030"-3/16"
Lincoln	AWS A5.9	ER2209		All	DCEP	.030"-1/8"
ER2209						
Techalloy 413	AWS A5.7	ERCuNi	Argon	All	DCEP	.030"-3/16"
Techalloy 625	AWS A5.14	ERNiCrMo-3	Argon	All	DCEP	.030"-3/16"
Techalloy 825	AWS A5.14	ERNiFeCr-1	Argon	All	DCEP	.030"-3/16"
LINCOLN Red	AWS A5.9	ER308Lsi		All		.035",.045",
Max 308Lsi		ER308Si				1/16"
LINCOLN Red	AWS A5.9	ER309Lsi		All		.035",.045",
Max 309Lsi		ER309Si				1/16"
LINCOLN Red	AWS A5.9	ER316Lsi		All		.035",
Max 316Lsi		ER316Si				.045",1/16"
Lincoln	AWS A5.9	ER308/308L				1/16",1/8",
ER308/308LCF	4 XX ZQ 4 # Q	77046/0467				3/32"
Lincoln	AWS A5.9	ER316/316L				1/16",1/8",
ER316/316LCF						3/32"

Thomas Perk, SURVEYOR

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