

Certificate number : WM 12410/02/U.1

File number : 12410/21

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Covered Electrode for Manual Metal Arc Welding

**Designation** : Excalibur 7018 MR  
**Grade** : 3Y HHH  
**Description** : Basic covering  
**Diameter** : 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 in.  
**Welding current** : AC  
**Welding position** : All positions for butt and fillet welding except vertical downwards (PA,PF,PC,PE,PD,PB)  
**Remark** : N/A.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

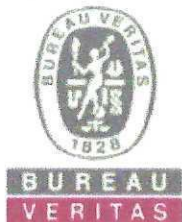
Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/04/U.1

File number : 12410/22

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Covered Electrode for Manual Metal Arc Welding

<b>Designation</b>	: Excalibur 7018-1 MR
<b>Grade</b>	: 3Y HHH
<b>Description</b>	: Basic covering
<b>Diameter</b>	: 3/32 - 1/8 - 5/32 - 3/16 in.
<b>Welding current</b>	: AC
<b>Welding position</b>	: All positions for butt and fillet welding except vertical downwards (PA,PF,PC,PE,PD,PB)
<b>Remark</b>	: N/A.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in



Certificate number : WM 12410/07/U.1

File number : 478/16

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Covered Electrode for Manual Metal Arc Welding

**Designation** : JETWELD LH-70  
**Grade** : 3Y HHH  
**Description** : Basic covering  
**Diameter** : 5/32 to 1/4 in.  
**Welding current** : AC  
**Welding position** : All positions for butt welding except vertical downwards (PA,PF,PC,PE)  
**Remark** : N/A.

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.*

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 18 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/08/V.1

File number : 478/12

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Covered Electrode for Manual Metal Arc Welding

**Designation** : FLEETWELD 37  
**Grade** : 1  
**Description** : Rutile covering  
**Diameter** : 5/64 to 3/16 in.  
**Welding current** : AC  
**Welding position** : Flat butt weld (PA bw), Horizontal vertical butt weld (PC bw)  
**Remark** : N/A.

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.*

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/06/V.1

File number : 478/13

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Covered Electrode for Manual Metal Arc Welding

**Designation** : JETWELD 1  
**Grade** : 1  
**Description** : Rutile covering  
**Diameter** : 3/32 to 1/4 in.  
**Welding current** : AC  
**Welding position** : Flat butt weld (PA bw)  
**Remark** : N/A.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 18 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/41/L.1

File number : 12410 N 2009

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Solid Wire / Gas Combination for Semi-Automatic or Automatic Welding

**Designation** : Super Arc L-59  
**Grade** : SA3YHHH  
**Description** : Gas Shield CO2 25% / Ar 75% (M21)  
**Diameter** : .035" and 1/16"  
**Welding current** : DCEP  
**Welding position** : Flat butt weld (PA bw); Vertical upwards butt weld (PF bw)  
**Remark** : Nil.

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.*

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 18 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/42/F.1

File number : 12410 N 2015; 12410 R 2017

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Flux-Cored Wire for Semi-Automatic or Automatic Welding with Shielding Gas

<b>Designation</b>	: UltraCore HD Marine
<b>Grade</b>	: SA2Y H10
<b>Description</b>	: Gas Shield CO2 100% (C1)
<b>Diameter</b>	: 0.052" and 1/16"
<b>Welding current</b>	: DCEP
<b>Welding position</b>	: All positions for butt welding except vertical downwards (PA, PF, PC, PE), Flat fillet weld (PA fw)
<b>Remark</b>	: N/A

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/40/M.1

File number : 12410 N 2009

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Flux-Cored Wire for Semi-Automatic or Automatic Welding with Shielding Gas

<b>Designation</b>	: Outershield 71M
<b>Grade</b>	: SA3YH
<b>Description</b>	: Gas Shield CO2 100% (C1)
<b>Diameter</b>	: .045" and 1/16"
<b>Welding current</b>	: DCEP
<b>Welding position</b>	: Flat butt weld (PA bw); Overhead butt weld (PE bw); Vertical Upwards butt weld (PF bw)
<b>Remark</b>	: Nil

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*







Certificate number : WM 12410/19/V.1

File number : 478/27

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Flux-Cored Wire for Semi-Automatic or Automatic Welding without Shielding Gas

<b>Designation</b>	: INNERSHIELD NR-203 MP
<b>Grade</b>	: SA3YM H
<b>Description</b>	: Flux Cored Wire without Shielding Gas
<b>Diameter</b>	: 1.0 mm, .068 in, 5/64 in and 3/32 in
<b>Welding current</b>	: DC (-)
<b>Welding position</b>	: For all diameters: Flat butt weld (PA), Horizontal vertical butt weld (PC); For diameter 1.0 mm, 0.068 in and 5/64 in: Vertical upwards butt weld (PF), Overhead butt weld (PE); For diameter 0.068 in and 5/64 in: Vertical downwards butt weld (PG).
<b>Remark</b>	: N/A.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/18/V.1

File number : 478/26

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Flux-Cored Wire for Semi-Automatic or Automatic Welding without Shielding Gas

**Designation** : INNERSHIELD NR-311 Ni  
**Grade** : SA2YM  
**Description** : Flux Cored Wire without Shielding Gas  
**Diameter** : 5/64 to 7/64 in.  
**Welding current** : DC (-Ve)  
**Welding position** : Flat butt weld (PA bw), Horizontal vertical butt weld (PC bw)  
**Remark** : N/A.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/20/V.1

File number : 478/22

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Flux-Cored Wire for Semi-Automatic or Automatic Welding without Shielding Gas

<b>Designation</b>	: INNERSHIELD NR-232
<b>Grade</b>	: SA3YM H
<b>Description</b>	: Flux Cored Wire without Shielding Gas
<b>Diameter</b>	: .068 to 5/64 in.
<b>Welding current</b>	: DC (-Ve)
<b>Welding position</b>	: All positions for butt welding except vertical downwards (PA,PF,PC,PE)
<b>Remark</b>	: N/A.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/21/V.1

File number : 478/21

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Flux-Cored Wire for Semi-Automatic or Automatic Welding without Shielding Gas

**Designation** : INNERSHIELD NR-207  
**Grade** : SA3YM H  
**Description** : Flux Cored Wire without Shielding Gas  
**Diameter** : .068 to 5/64 in.  
**Welding current** : DC (-)  
**Welding position** : All positions for butt welding including vertical downwards (PA,PF,PG,PC,PE)  
**Remark** : N/A.

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.*

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee





Certificate number : WM 12410/25/V.1

File number : 478/10

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**

Cleveland, OH - UNITED STATES OF AMERICA

for the product

**Wire / Flux Combination for Submerged Arc Welding**

<b>Designation</b>	: Lincoln weld L61 / 860
<b>Grade</b>	: A3YM,A2YT
<b>Description</b>	: Submerged Arc Welding
<b>Diameter</b>	: 1/16 to 3/16 in.
<b>Welding current</b>	: DC (+)
<b>Welding position</b>	: Flat butt weld (PA bw)
<b>Remark</b>	: Product manufactured also by Lincoln Electric Company of Canada Ltd.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/24/V.1

File number : 478/20

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Wire / Flux Combination for Submerged Arc Welding

**Designation** : Lincoln weld L61 / 780  
**Grade** : A3YT, A2YM  
**Description** : Submerged Arc Welding  
**Diameter** : 1/16 to 3/16 in.  
**Welding current** : DC (+)  
**Welding position** : Flat butt weld (PA bw)  
**Remark** : Product manufactured also by Lincoln Electric Company of Canada Ltd.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*





Certificate number : WM 12410/23/V.1

File number : 478/19

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

**LINCOLN ELECTRIC COMPANY**  
Cleveland, OH - UNITED STATES OF AMERICA

for the product

### Wire / Flux Combination for Submerged Arc Welding

**Designation** : Lincoln weld L61 / 761  
**Grade** : A3YM  
**Description** : Submerged Arc Welding  
**Diameter** : 1/16 to 3/16 in.  
**Welding current** : DC (+)  
**Welding position** : Flat butt weld (PA bw)  
**Remark** : Product manufactured also by Lincoln Electric Company of Canada Ltd.

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.*

**This certificate will expire on: 29 Oct 2021**

**For Bureau Veritas Marine & Offshore,**

Local office: BV HOUSTON

Issued on 20 Feb 2021

Surveyor: J. Lee

*JongHeonLee*

