

Effective Date: May 20, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

| | |
|------------------------|--|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 1) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Piqua, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) E491T15-GA4-CS1-H4 (E491C-6MJ-H4) E491T15-M12A4-CS1-H4 (E491C-6MJ-H4) E491T15-M20A4-CS1-H4 (E491C-6MJ-H4) E491T15-M21A4-CS1-H4 (E491C-6MJ-H4) E491T15-M22A4-CS1-H4 (E491C-6MJ-H4) M20 |
| Classification: | Mig Mix Gold |
| Gas or Flux: | M22 (Ar + 5%O₂) M12 (Ar + 5%CO₂) M21 (Ar + 20% to 25%CO₂) |
| Size (mm): | Min: 1.2 Max: 1.6 |

Expiry date: **May 20, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

TMM76

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: May 20, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has satisfied itself on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 1) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Piqua, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E491T15-GA4-CS1-H4 (E491C-6MJ-H4) |
| Gas or Flux: | Ferroline C8 Ferroline C15 Ferroline C25 |
| Size (mm): | Min: 1.2 Max: 1.6 |

Others Details:

In addition, the diffusible hydrogen tests was conducted in accordance with the latest ISO 3690 or AWS A4.3 and within the limits sets by the standard above.

Expiry date: **May 20, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

FABCOR86RARGOS

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: March 22, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 1) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Piqua, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E491T15-GA4-CS1-H4 (E491C-6MJ-H4) |
| Gas or Flux: | Ozoline C8 Ozoline C15 |
| Size (mm): | Min: 1.2 Max: 1.6 |

Expiry date: **March 22, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

HBPMETC6.1

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: August 03, 2023

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 2) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Troy, Ohio, USA |
| Standard: | W48-23 / AWS A5.36M |
| Classification: | E490T15-M12A4-CS1-H4 |
| Gas or Flux: | M12 (Ar + 5%CO₂) |
| Size (mm): | Min: 2.0 Max: 2.0 |

Expiry date: **August 3, 2025**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

FABCOR86R9052.0

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: June 28, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 2) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Troy, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E490T15-M20A4-CS1-H4 (E492C-6MJ-H4) |
| Gas or Flux: | M20 (Ar + 10%CO₂) |
| Size (mm): | Min: 2.0 Max: 2.0 |

Expiry date: **June 28, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

FABCOR86R90102.0

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: February 27, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has satisfied itself on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 3) |
| Electrode Designation: | FABCOR 86R |
| Point of Manufacture: | Troy, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E491T15-GA4-CS1-H4 (E491C-6MJ-H4) |
| Gas or Flux: | Mig Mix Gold |
| Size (mm): | Min: 0.9 Max: 1.6 |

Others Details:

In addition, the diffusible hydrogen tests was conducted in accordance with the latest ISO 3690 or AWS A4.3 and within the limits sets by the standard above.

Expiry date: **February 27, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

FABCOR86RMIGMIXGOLD

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: February 27, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 3) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Troy, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E491T15-M12A4-CS1-H4 (E491C-6MJ-H4) |
| | E491T15-M20A4-CS1-H4 (E491C-6MJ-H4) |
| | E491T15-M21A4-CS1-H4 (E491C-6MJ-H4) |
| | E491T15-M22A4-CS1-H4 (E491C-6MJ-H4) |
| Gas or Flux: | M20 |
| | M22 (Ar + 5%O₂) |
| | M12 (Ar + 5%CO₂) |
| Size (mm): | M21 (Ar + 20% to 25%CO₂) |
| | Min: 0.9 Max: 1.6 |

Expiry date: **February 27, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

KCFABCOR86R

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: February 27, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has satisfied itself on the following :

| | |
|------------------------|--|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 3) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Troy, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E491T15-GA4-CS1-H4 (E491C-6MJ-H4) |
| Gas or Flux: | Ferroline C8 (Argoshield 8C) Ferroline C15 (Argoshield GP) Ferroline C25 (Argoshield 25C) |
| Size (mm): | Min: 0.9 Max: 1.6 |

Others Details:

In addition, the diffusible hydrogen tests was conducted in accordance with the latest ISO 3690 or AWS A4.3 and within the limits sets by the standard above.

Expiry date: **February 27, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

FABCOR86RARGO8CGP25C

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.

Effective Date: February 27, 2022

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

| | |
|------------------------|---|
| Company Name: | Hobart Brothers LLC, Tubular Wire Business (Plant 3) |
| Electrode Designation: | FabCOR 86R |
| Point of Manufacture: | Troy, Ohio, USA |
| Standard: | CSA W48-18 (FCAW/MCAW Carbon Steel) |
| Classification: | E491T15-GA4-CS1-H4 (E491C-6MJ-H4) |
| Gas or Flux: | Ozoline C8 Ozoline C15 |
| Size (mm): | Min: 1.2 Max: 1.6 |

Expiry date: **February 27, 2024**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU



Registrar

FABCOR86R8C15C

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by *ISO/IEC 17067:2013 Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes, scheme type 5*.