



Effective Date: May 20, 2020

**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)**  
Classification: **M20**  
**Mig Mix Gold**  
Gas or Flux: **M22 (Ar + 5%O2)**  
**M12 (Ar + 5%CO<sub>2</sub>)**  
**M21 (Ar + 20% to 25%CO<sub>2</sub>)**  
Size (mm): **Min: 1.2 Max: 1.6**

Expiry date: **May 20, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



Effective Date: May 20, 2020

**CERTIFICATION OF WELDING CONSUMABLE**

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

Company Name:	<b>Hobart Brothers LLC, Tubular Wire Business (Plant 1)</b>
Electrode Designation:	<b>FabCOR 86R</b>
Point of Manufacture:	<b>Piqua, Ohio, USA</b>
Standard:	<b>CSA W48-18 (FCAW/MCAW Carbon Steel)</b>
Classification:	<b>E491T15-GA4-CS1-H4 (E491C-6MJ-H4)</b>
Gas or Flux:	<b>Ferroline C8 (Argoshield 8C) Ferroline C15 (Argoshield GP) Ferroline C25 (Argoshield 25C)</b>
Size (mm):	<b>Min: 1.2    Max: 1.6</b>

Expiry date: **May 20, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



Date: January 21, 2020

Effective Date: March 22, 2020

**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 (Linde Mison 8C)  
Ozoline C15 (Linde Mison 15C)**  
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. Product is classified using the designation and classification requirements as specified in AWS A5.36M.

Expiry date: **March 22, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



8260 Parkhill Drive, Milton, Ontario L9T 5V7  
Tel: 1.800.844.6790 info@cwbgrouop.org  
Fax: 905.542.1318 www.cwbgrouop.org



Date: January 20, 2020

Effective Date: February 27, 2020

### 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. Product is classified using the designation and classification requirements as specified in AWS A5.36M.

Expiry date: **February 27, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



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Tel: 1.800.844.6790 info@cwbgroup.org  
Fax: 905.542.1318 www.cwbgroup.org



Date: January 20, 2020

Effective Date: February 27, 2020

### 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)  
M20**

Gas or Flux: **M22 (Ar + 5%O<sub>2</sub>)  
M12 (Ar + 5%CO<sub>2</sub>)  
M21 (Ar + 20% to 25%CO<sub>2</sub>)**

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. Product is classified using the designation and classification requirements as specified in AWS A5.36M.

Expiry date: **February 27, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



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Date: January 20, 2020

Effective Date: February 27, 2020

### 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 (Linde Mison 8C)  
Ozoline C15 (Linde Mison 15C)**  
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. Product is classified using the designation and classification requirements as specified in AWS A5.36M.

Expiry date: **February 27, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



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Tel: 1.800.844.6790 info@cwbgroup.org  
Fax: 905.542.1318 www.cwbgroup.org



Date: January 20, 2020

Effective Date: February 27, 2020

### CERTIFICATION OF WELDING CONSUMABLE

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

Company Name:	<b>HOBART BROTHERS LLC, TUBULAR WIRE BUSINESS (PLANT 3)</b>
Electrode Designation:	<b>FABCOR 86R</b>
Point of Manufacture:	<b>Troy, Ohio, USA</b>
Standard:	<b>CSA W48-18 (FCAW/MCAW Carbon Steel)</b>
Classification:	<b>E491T15-GA4-CS1-H4 (E491C-6MJ-H4)</b>
Gas or Flux:	<b>Ferroline C8 (Argoshield 8C) Ferroline C15 (Argoshield GP) Ferroline C25 (Argoshield 25C)</b>
Size (mm):	<b>Min: 0.9 Max: 1.6</b>

#### 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. Product is classified using the designation and classification requirements as specified in AWS A5.36M.

Expiry date: **February 27, 2022**

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 Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.



8260 Parkhill Drive, Milton, Ontario L9T 5V7  
Tel: 1.800.844.6790 info@cwbgroup.org  
Fax: 905.542.1318 www.cwbgroup.org

Effective Date: May 05, 2021

**CERTIFICATION OF WELDING CONSUMABLE**

This is to advise you the Canadian Welding Bureau has granted interim approval on the following:

Company Name:	<b>HOBART BROTHERS LLC, TUBULAR WIRE BUSINESS (PLANT 2)</b>
Electrode Designation:	<b>FabCOR 86R</b>
Point of Manufacture:	<b>Troy, Ohio, USA</b>
Standard:	<b>CSA W48-18 (FCAW/MCAW Carbon Steel)</b>
Classification:	<b>E490T15-M20A4-CS1-H4 (E492C-6MJ-H4)</b>
Gas or Flux:	<b>M20 (Ar + 10%CO<sub>2</sub>)</b>
Size (mm):	<b>Min: 2.0 Max: 2.0</b>

Expiry date: **May 5, 2022**

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

CANADIAN WELDING BUREAU



Registrar

FABCOR86R90102.4

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.