

## **Certificate of Conformance** to Requirements for Welding Electrode

Product Type: Fabshield X80 Classification: E81T8-Ni2 J H8

AWS A5.29/A5.29M; ASME SFA 5.29 Specifications:

5/64" Diameter Tested: Date Tested: 3/7/2022 Date Generated: 6/28/2023

Shielding Medium / Ref. No

Self-Shielded / PE3524

С

0.03

Mn

1.25

Ρ

0.008

S

0.003

0.07

This is to certify that the product named above and supplied on the referenced order number is of the same classification, manufacturing process, and material requirements as the material which was used for the test that was concluded on the date shown, the results of which are shown below. All tests required by the specifications shown for classification were performed at that time and the material tested met all requirements. It was manufactured and supplied by the Quality System Program of Hobart Brothers, which meets the requirements of ISO 9001, ANSI/AWS A5.01, and other specification and Military requirements, as applicable. This document supplies actual test results of non-specific inspection in conformance with the requirements of EN 10204, type 2.2 certification.

## THE STEEL USED IN THIS LOT OF MATERIAL WAS MELTED AND MANUFACTURED IN THE U.S.A.

## **Test Settings** Travel Speed Amps / Polarity ESO in(mm) Preheat F(C) Shielding Medium Volts Interpass F(C) in/min(m/min) in/min(cm/min) Self-Shielded 250 / DCEN 20 110 (2.8) 1 (25) 300(149) 300(149) 8.5 (21.6) **Mechanical Properties - Tensile** Yield Strength psi (MPa) **Testing Conditions** Ult. Tensile Strength psi (MPa) Elong.% in 2" Shielding Medium Ref No. PE3524 Aged 48 Hrs 200F 93,000 ( 641 ) 83,000 ( 571 ) Self-Shielded **Mechanical Properties - Impact** Shielding Medium Ref. No. **Testing Conditions** Temp. F (C) Individuals ft.lb.(J) Avg. ft.lb.(J) Type Self-Shielded PE3524 As Welded -40 (-40) 143,128,128 (194,174,174) 133 (180) Charpy-V-Notch Fillet Weld Test Ref.No. Radiographic Inspection Horizontal : Conforms Overhead: Conforms Vertical : Conforms **Chemical Analysis**

Cu Cr V

## 2.13 Diffusible Hydrogen Collected per AWS A4.3 Self-Shielded 4.4 ml/100g of weld metal for 5/64 in diameter 15% relative humidity

Ni

ΑI

1.08

Ti Nb Co B W Sn Fe

Dave Thomas, Quality Assurance Rep.

Certification and Limited Warranty - Data for the above supplied product are those obtained when welded and tested in accordance with the above specification. All tests for the above classification were satisfied. Other tests and procedures may produce different results.