

Shielding Medium / Ref. No

N/A / PE8034

C Mn

0.03 1.19

Certificate of Conformance to Requirements for Welding Electrode

Product Type: Fabshield 81N1 Classification: E71T8-Ni1 J H8 AWS A5.29/A5.29M; ASME SFA 5.29 Specifications: 5/64" Diameter Tested: Date Tested: 5/24/2024 Date Generated: 6/10/2024 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** WFS Travel Speed Shielding Medium Amps / Polarity Volts ESO in(mm) Preheat F(C) Interpass F(C) in/min(m/min) in/min(cm/min) N/A 249 / DCEN 120 (3) 1 (25) 300(149) 300(149) 20.3 7.7 (19.6) **Mechanical Properties - Tensile** Ult. Tensile Strength psi (MPa) Shielding Medium Ref. No. **Testing Conditions** Yield Strength psi (MPa) Elong.% in 2" PE8034 Aged 48 Hrs 220F 81,000 (557) 69,000 (478) N/A 27 **Mechanical Properties - Impact** Shielding Medium Ref. No. **Testing Conditions** Temp. F (C) Individuals ft.lb.(J) Avg. ft.lb.(J) Type PE8034 Charpy-V-Notch As Welded -40 (-40) 299,298,298 (405,404,404) 298 (404) N/A Ref.No Radiographic Inspection Fillet Weld Test PE8034 Horizontal: Overhead : Vertical : **Chemical Analysis**

Diffusible Hydrogen Collected per AWS A4.3

Cr

0.02

Cu

Si

0.08

0.003

0.004

N/A 4.6 ml/100g of weld metal for 5/64 in diameter 19% relative humidity

< .01 0.95

Мо

< .01

Ti Nb Co B W Sn

N Mg Zn

James a Oneugh

James A. Owens, Q.A. Specialist

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.