

Certificate of Conformance to Requirements for Welding Electrode

Product Type: TM-771

Classification: E71T-1CJ H8, E71T-9CJ H8, E71T-12CJ H8

AWS A5.20/A5.20M; ASME SFA 5.20 Specifications:

1/16" Diameter Tested: 2/09/2024 Date Tested: Date Generated: 2/29/2024

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) C1 277.9 / DCEP 250 (6.4) 3/4 (19) Room Temp 300(149) 10.3 (26.2) 27 **Mechanical Properties - Tensile** Ult. Tensile Strength psi (MPa) Elong.% in 2" Shielding Medium Ref. No. **Testing Conditions** Yield Strength psi (MPa) PE7510 Aged 48 Hrs 220F 72,000 (498) 65,000 (448) C1 31 **Mechanical Properties - Impact** Shielding Medium Ref. No. **Testing Conditions** Temp. F (C) Individuals ft.lb.(J) Avg. ft.lb.(J) Type PE7510 123,113,104 (167,153,141) 113 (154) Charpy-V-Notch As Welded 0 (-18) C1

l	C1		PE7	510		As Welded			-40 (-40) 21,84,24 (2						28,11	4,33)	43 (58)					Charpy-V-Notch				
ı	Ref.No. Radiographic Inspection					Fillet Weld Test																				
ı	PE7510	PE7510 Conforms				Horizontal :						Overhead : Conforms						Vertical :					: Conforms			
							(Cher	nical	Ana	lysis	3														
	Shielding M	edium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI	Ti Nb	Со	В	W	Sn	Fe	Sb	И	Иg	Zn	Ве	Sb	As

	Chombur Analysis																								
Shielding Medium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI	Ti	Nb	Со	В	W	Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As
C1 / PE7510	0.05	0.86	0.014	0.009	0.21	0.02	0.03	0.02	0.39	< .01					0.0033										
Diff. 11. II. I. O. II. (I. AMO A 4.0																									

Diffusible Hydrogen Collected per AWS A4.3 C1 5.6 ml/100g of weld metal for 1/16 in diameter 15% relative humidity

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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.