

Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO 110

Classification: E111T1-K3 MJ H8

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

1/16" Diameter Tested:

Date Tested: 2/16/2023 3/13/2023 Date Generated:

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 Amps / Polarity ESO in(mm) Preheat F(C) Interpass F(C) Shielding Medium Volts in/min(m/min) in/min(cm/min) M21-ArC-25 300 / DCEP 26 230 (5.8) 3/4 (19) 300(149) 300(149) 12 (30.5) **Mechanical Properties - Tensile** Shielding Medium Ref. No. **Testing Conditions** Ult. Tensile Strength psi (MPa) Yield Strength psi (MPa) Elong.% in 2"

M21-ArC-25	PE5715	Aged 48 Hrs 220	F 110,00	0 (757)	100,000 (687)	21
		Mechanic	al Properties - In	npact		
Shielding Medium	Ref. No.	Testing Conditions	Temp. F (C)	Individuals ft.lb.(J) Avg. ft.lb.(J)	Type

M21-A	ArC-25	PE5676	As Welded	-20 (-29)	27,28,28 (37,38,38)	28 (38)	Charpy-V-Notch
Ref.No.	Radiograph	nic Inspection			Fillet Weld Test		
DE5676	Con	forme	Horizontal :		Overhead : Conform	ne Vertice	ol : Conforme

н	1 20070	Cornori	110				IONZON	itui .					O VCITICAL .	COINCIN	10		VOIL	iioui .	001	11011113	,
ľ							(Cher	nical	l Ana	lysis	;									
Ì	Shielding M	edium / Ref. No.	C	Mn	Р	S	Si	Сп	Cr	V	Ni	Мо	ALTI Nh Col	В	W Sn	Fe S	sh N	Ma I	7n Be	Sh	Δς

M21-ArC-25 / PE5676 1.58 0.009 0.010 0.5 0.03 0.05 0.02 1.78 0.0049

Diffusible Hydrogen Collected per AWS A4.3 M21-ArC-25 6.7 ml/100g of weld metal for 1/16 in diameter 16% relative humidity

James a Omenof

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.