

Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO Element 71T1M

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

Specifications: AWS A5.20; ASME SFA5.20

Diameter Tested: 1/16"

Date Tested: 7/16/2018

Date Generated: 2/4/2019

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

							103	·	ungs																
Shielding Medium		Amps / Polarity		rity	Volts	WFS in/min(m/r		nin)	ESO in(mm)				Preheat F(C)				Interpass F(C)					Travel Speed in/min(cm/min)			
M21-ArC-25		275	275 / DCEP		26	240 (6.1)				9)		Room Temp				30	0(14	49)			10 (25.4)				
					Ме	chan	ical F	Prop	erties	- Te	nsile														
Shieldi	Re	Ref. No.		Testing Conditions			U	llt. Tens	ngth pe	Pa)	Yield	th psi (MPa)				Elong.% in 2"									
M2 ²	PI	D6419		Aged 48 Hrs 220F			\top	72,000 (499)				59,00				00 (405)				27					
Mechanical Properties - Impact																									
Shielding Medium		Ref. N	No.	Test	Testing Conditions			Temp. F (C)			Individuals ft.lb.(J)					Avg. ft.lb.(J)				Туре					
M21-ArC-25		PD64	19		As Welded				(-18)	82,77,81 (111,104,110)					80 (108)				Charpy-V-Notch						
M21-ArC-25		PD6419			As Welded			-20 (-29)				80,83,60 (108,113,81)					74 (101)				Charpy-V-Notch			otch	
Ref.No.	Radiographic		Fillet Weld Test																						
PD6419	PD6419 Conforms					Horizontal :				Overhead				d : Conforms				Vertical : Conforms						3	
						С	hemi	ical A	Analy	sis															
Shielding Medium / Ref. No		С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AIT	i Nb	Co	зΝ	√ Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As	
M21-ArC-25 / CD40455		0.03	0.14	0.006	0.006	0.41	0.02	0.01	< .01	0.46	0.04						П		П						
		•		Diff	usible	Hyd	roge	n Co	llecte	d pe	r AW	S A4	1.3	,,				,							
																								\neg	

M21-ArC-25 7.8 ml/100g of weld metal for 1/16 in diameter 44% relative humidity

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.