

Certificate of Conformance to Requirements for Welding Electrode

Product Type:	FabCOR Element 70C6
Classification:	E70C-6M H4
Specifications:	AWS A5.18/A5.18M; ASME SFA 5.18
Diameter Tested:	1/16"
Date Tested:	8/31/2020
Date Generated:	9/30/2020

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.

								Tes	t Set	tings																	
	Shieldir	Shielding Medium Amps / Polarity				Volts		WFS nin(m/n	nin)	ESO in(mm)					eheat	C)		Inter	pass	F((C)	Travel Speed in/min(cm/min)					
	M21	-ArC-25	315	/ DCE	P	28	2	25 (5.7	·)	.75 (19)					Room Temp					00(14	9)		12 (30.5)				
	M20	-ArC-10	300	/ DCE	P	27.5	2	30 (5.8	5)	.75 (19)					oom ⁻	р		30	00(14	9)		12 (30.5)					
Mechanical Properties - Tensile Shielding Medium Ref. No. Testing Conditions Ult. Tensile Strength psi (MPa) Yield Strength psi (MPa) Elong.% in 2"																											
	Shield	ing Medium	Testing	Testing Conditions				Ult. Tensile Strength psi (MI						Stre	ngth	gth psi (MPa)				Elong.% in 2"							
	M2 ⁻	1-ArC-25	Р	D9530		Aged 48 Hrs 220F				78,000 (537)						7	70,0) 00	0 (485)				28				
	M20	0-ArC-10	Р	D9558		As Welded				7			(69,0) 00	0(473)				27							
	Mechanical Properties - Impact																										
	Shielding Medium Ref. No.				Tes	ting Conc		Tem	p. F (C)	In	divid	luals	ft.lb.(J)			Avg.	ft.lb.	(J)		Туре						
	M21-	M21-ArC-25 PD9530					ed		-20	0 (-29)		36	,59,	59,50 (49,80,68)					48	(66)		Charpy-V-Notch				
	M20-ArC-10 PD9558 /						As Welded				-20 (-29) 58,65,56 (7					9,88,76) 60 (81))		Charpy-V-Notcl				
	Ref.No. Radiographic Inspection Fillet Weld Test																										
	PD9530	Confo				Horizontal :				Overhead											tical :						
	PD9558	Confo	HC	Horizontal : Vertica												ertica	al :										
								1	-	<u> </u>	_	1									_						
	<u> </u>	ledium / Ref. No	C	Mn	Р	S	Si	Cu	Cr	V	Ni	_	AI	Ti N		В	W	Sn	Fe	Sb	N	Mg	Zn	Be	Sb	As	
	M21-ArC-		0.05	0.48	0.010	0.010	0.57	0.04	0.03	< .01	0.40																
	M20-ArC-	10 / PD9558	0.06	0.51	0.011	0.009	0.64	0.03	0.03		0.41															Щ	
					Dif	fusible	Hyd														_						
		M21-ArC-28	3.4 ml/100g of weld metal for 1/16 in diameter 20% relative humidity																								
		M20-ArC-10	2.9 ml/100g of weld metal for 1/16 in diameter 20% relative humidity																								
IF																					-						
						1	1	1	/	-	7	./															
						Na	Ne	/ /	4.	4	h	me	×	>													

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.