

Certificate of Conformance to Requirements for Welding Electrode

R Edge Ni1	Product Type:
i1 H4	Classification:
5.28/A5.28M; ASME SFA	Specifications:
	Diameter Tested:
25	Date Tested:
25	Date Generated:
5.28/A5.28M; ASME SFA 25	Specifications: Diameter Tested: Date Tested:

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.

							Te	est So	etting	S																	
Shieldir	ng Medium	Medium Amps / Polarity		irity	Volts	in	WFS	FS			SO in(mm)				heat F(C)		Inte	erpa	ass F	F(C	;)	Travel Speed in/min(cm/mir					
M13-ArO-2 350 / DCEP			27		280 (7	'.1)		3/4 (19)			3	00(149)	Т	3	300	(149))		Г	14 (35.6)						
M12-ArC-5 350 / DCEP		27		280 (7	'.1)		3/4 (19)			3	00(149)	Т	3	300	(149))		Г	14 (35.6)							
M22	M22-ArO-5 350 / DCEP		26		280 (7	'.1)		3/4 (,				00(149)	3	300	(149))	_	T	14 (35.6)							
M20-	M20-ArC-10 350 / DCEP		EP	28		280 (7	'.1)		3/4 (19)			300(149)				300	(149	3)	_	14 (35.6)				-		
					М	echa	nica	l Pro	pertie	s - T	ensi	le				_				<u> </u>	_	<u> </u>		<u> </u>	<u> </u>	-	
Shielding Medium Ref. N			ef. No.		Testin	g Con	ditions		Ult. Tensile Strength psi (I					a)	Yield Stre	th ps	si (N	ЛРа)	Γ	EI	Ī					
M1	3-ArO-2	P	PF0513			48 Hrs	3220F		94,000 (645)					82,000							Γ		Ĩ				
M12-ArC-5			F0521	Í	Aged	48 Hrs	3 220F			0 (65	656) 85,4					000 (588)					26						
M22-ArO-5 PF0537				Aged	48 Hrs	3 220F		88,000 (603)						77,0	(530)												
M20)-ArC-10	PF0542			Aged	48 Hrs	3 220F		89,000 (614)						78,0	(53	5)			T		_					
					М	lecha	nica	l Pro	pertie	es - l	mpad	ct								_					_	Ĩ	
Shielding	g Medium	Ref. No. Test			sting Co	ndition	s	Te	mp. F (C)		Ind	Individuals ft.lb.(J)					g. fl	t.lb.(J)	_	Γ	Туре				
M13-ArO-2 PF0513				As Wel	ded			-50 (-46	6)		25,22,25 (34,30,34)					24 (33)						Charpy-V-No					
M12-ArC-5 PF0521			As Wel	ded		-50 (-46) 25,25					5,26 (34,34,35)					25 (34)					Charpy-V-No						
M22-	M22-ArO-5 PF0537				As Wel	ded			-50 (-46)				33,42,37 (45,57,50)					37 (51)	,			đ				
M20-ArC-10 PF0542			As Wel	ded				37,47,46 (50,64,62)					43 (59)					Charpy-V-No				đ					
Ref.No.	Radiographi		ction								·		t Welc						_		_	<u> </u>		_	_	-	
PF0513 PF0521	Confo					Horizo								/erhead : /erhead :					Vertica Vertica							-	
PF0521 PF0537	Confo		orms			Horizo Horizo							Verhe	_					Vei								
PF0542	Confo					Horizo					Overhead										tical :						
							Cher	mical	Anal	ysis																	
Shielding M	edium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI	Ti Nt	0	o B	W	Sn	Fe) St	οN	1 N	1g	Zn B	eξ	Sb		
M13-ArO-	2 / PF0513	0.04	1.28	0.013	0.009	0.50	0.03	0.04	< .01	0.85	0.01				0.0028												
M12-ArC-	5 / PF0521	0.05	1.46	0.013	0.009	0.60	0.03	0.04	< .01	0.94	0.01	П		Т	0.0033			Γ		Т	Т	Т		Т		ĺ	
M22-ArO-5 / PF0537		0.04	1.30	0.013	0.009	0.53	0.03	0.04	< .01	0.97	0.01	Π		Т	0.0029	Γ		Γ		Т	T	T		Т		ĺ	
M20-ArC-	10 / PF0542	0.04	1.40	0.013	0.009	0.58	0.03	0.04	< .01	0.97	0.01	П		Ť	0.0031	Γ		Γ	T	Т	Т	Ť		Т	T	í	
				Dif	fusib	le Hy	drog	jen C	ollec	ted p	er A	WS	Â4.	3												Ì	
	M12-ArC-5							2.3 r	nl/100g	of we	ld met	al fo	or 1/16	6 in	diameter 15	5% I	relati	ive	hum	nidif	ty						
	M22-ArO-5							2.4 r	nl/100g	of we	ld met	al fo	or 1/16	in 6	diameter 15	5% I	relati	ive	hum	nidif	ty						
	M20-ArC-10)						2.0 r	nl/100g	of we	ld met	al fo	or 1/16	6 in	diameter 17	7% I	relati	ive	hum	nidif	ty			_	_		
														_	diameter 14	_	_	_	_	_		-			_	1	

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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.