

Certificate of Conformance to Requirements for Welding Electrode

Product Type:	SubCOR EM13KS MOD
Classification:	EC1
Specifications:	AWS A5.17/A5.17M; ASME SFA 5.17
Diameter Tested:	5/32"
Date Tested:	10/16/2020
Date Generated:	10/28/2020

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.

				Mecha	nical	Prop	ertie	s -	Ter	sile			-														
Shielding Medium	Ref. No.		Testing Condition				Ult. Tensile Strength psi (MPa)						Yield Strength psi (MPa)									Elong.% in 2"					
HN-590 (F7A8-EC1 H8)	PE1385		Aged 48 Hrs 220				74,000 (511)						64,000 (438)								\square	29					
SWX-120 (F7A8-EC1 H8)	PD9428		Aged 48 Hrs 220				76,000 (527)						66,000 (456)							\square	29						
SWX-120 (F7P8-EC1 H8)	PD9429		SR 1 Hr @ 1150				74,000 (508)						61,000(421)							\square	31						
SWX-150 (F7A8-EC1 H8)	PE1104		Aged 48 Hrs 220				73,000 (505)						61,000 (421)							\square	29						
SWX-150 (F7P8-EC1 H8)	PE1228	SR 1 Hr @ 1050					71,000 (490)						58,000 (399)								34						
	·			Mecha	inical	Prop	ertie	s -	Im	oact			,														
Shielding Medium	Ref. No.	Testing Conditions				Tem	p. F (C		Individuals ft.lb.(J)						Avg. ft.lb.(J)						Туре						
SWX-120 (F7A8-EC1 H8)	PD9428		As Welded				-80 (-62) 58,27,95 (79,3						9,37,129) 60 (81)					,		Charpy-V-Notch							
SWX-120 (F7P8-EC1 H8)	PD9429	SF	R 1 Hr	-	-8	-80 (-62) 92,102,93 (125,						5,138,126) 96 (130)						Charpy-V-Notch									
SWX-150 (F7A8-EC1 H8)	PE1104		As Welded				-80 (-62)					109,106,95 (148,144,129)					103 (140)					Charpy-V-Notch					
SWX-150 (F7P8-EC1 H8)	PE1228	SF	SR 1 Hr @ 1050F				-80 (-62)					55,26,38 (75,35,52)					40 (54)					Charpy-V-Notch					
HN-590 (F7A8-EC1 H8)	PE1385		As Welded				-80 (-62) 46,61,62						,83,8		56 (76)					Charpy-V-Notch							
					Chem	ical /	Analy	/si	s																		
Shielding Medium / Re	f. No	С	Mn	Р	S	Si	Cu	Cr	VN	i Mo	AI 1	Ti I	vp C	0	вW	/ :	Sn F	e	Sb	Ν	Mg	Zn	Be	Sb	As		
SWX-120 (F7A8-EC1 H8)	/ PD9428	0.06	1.38	0.022	0.008	0.21	0.04			0.08	П																
SWX-150 (F7A8-EC1 H8)	/ PE1104	0.07	0.81	0.015	0.009	0.26	0.03			0.07																	
HN-590 (F7A8-EC1 H8) /	PE1385	0.05	1.10	0.026	0.011	0.20	0.04			0.08																	
		Dif	ffusil	ole Hy	droge	en Co	llect	ed	per	AWS	A4	.3															
SWX-120)	6.4 ml/100g of weld metal for 5/32 in diameter 50% relative humidity																									
HN-590		3.2 ml/100g of weld metal for 5/32 in diameter 50% relative humidity																									
SWX-150)	7.2 ml/100g of weld metal for 5/32 in diameter 56% 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.