



**Certificate of Conformance
to Requirements for Welding Electrode**

Product Type: **FabCOR F6**
 Classification: **E70C-GS**
 Specifications: **AWS A5.18/A5.18M; ASME SFA 5.18**
 Diameter Tested: **.045"**
 Date Tested: **12/14/2022**
 Date Generated: **1/16/2023**

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.

Mechanical Properties - Tensile

Shielding Medium	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"
M21-ArC-20	PE5189	Aged 48 Hrs 220F	84,000 (578)	NA	NA
M20-ArC-10	PE5193	Aged 48 Hrs 220F	80,000 (552)	NA	NA
M20-ArC-10	PE5271	Aged 48 Hrs 220F	85,000 (588)	NA	NA
M20-ArC-10	PE5271	Aged 48 Hrs 220F	85,000 (588)	NA	NA

Face Bend Test	PE5187 : CONFORMS
Face Bend Test	PE5189 : CONFORMS
Face Bend Test	PE5192 : CONFORMS
Face Bend Test	PE5193 : CONFORMS

Chemical Analysis

Shielding Medium / Ref. No	C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo	Al	Ti	Nb	Co	B	W	Sn	Fe	Sb	N	Mg	Zn	Be	Sb	As
M21-ArC-20 / CD91328	0.08	1.66	0.008	0.015	1.05	0.082	0.04	< .01	0.02	0.02															
M21-ArC-20 / CD91331	0.10	1.55	0.009	0.014	1.00	0.083	0.04	< .01	0.03	0.02															
M20-ArC-10 / CD91336	0.10	1.63	0.008	0.015	1.09	0.084	0.04	< .01	0.03	0.02															
M20-ArC-10 / CD91337	0.09	1.62	0.009	0.014	1.07	0.117	0.04	< .01	0.03	0.02															

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.

