



Certificate of Conformance to Requirements for Welding Electrode

Product Type: MEGAFIL 713R
Classification: E71T-12MJ H4
Specifications: AWS A5.20
Stock Number: 71315B
Diameter Tested: .045"
Date Tested: 10/01/2026
Date Generated: 10/13/2026

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.

Test Settings

Shielding Medium	Amps/Polarity	Volts	WFS in./min (m/min)	ESO in. (mm)	Preheat F (C)	Interpass F (C)	Travel Speed in/min (cm/min)
M21-ArC-25	270/DCEP	26	410 (10.4)	3/4 (19)	60 (16)	300 (149)	11 (27.9)

Mechanical Properties – Tensile

Shielding Medium/Classification	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong. % in 2:
M21-ArC-25	PF3574	Aged 48 Hrs. 220°F	86,200 (594)	78,900 (544)	28

Mechanical Properties – Impact

Shielding Medium/Classification	Ref. No.	Testing Conditions	Temp. F (C)	Individuals ft. lb. (J)	Avg. ft. lb. (J)	Type
M21-ArC-25	PF3574	As Welded	-40 (-40)	56,57,44 (76,77,60)	52 (71)	Charpy-V-Notch
			-50 (-46)	53,53,45 (72,72,61)	50 (68)	

Chemical Analysis

Shielding Medium/ Ref. No.	C	Mn	P	S	Si	Cu	Ni
M21-ArC-25/PF3574	0.03	1.51	0.009	0.008	0.55	0.16	0.014

James Owens, Compliance 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.