Certificate of Conformance to Requirements for Welding Electrode

Customer:	**Hobart Brothers LLC**	Product Type:	**HB 28**
Customer P.O. Number:		Classification:	**ER70S-6**
Order No.:		Specifications:	**AWS A5.18/ASME SFA5.18**
Stock Number:	**S305412**	Diameter Tested:	
Lbs. Generated:		Date Tested:	**06/2022**
Lot Nos. Shipped:	**2206282**	Diameter Shipped:	**.045" (1.2mm)**

This is to certify that the product named above and supplied on the referenced order number has been supplied with 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)
C1 (100% CO2)	275 / DCEP	27	240 (6.1)	.75 (19)	RT	300 (149)	10 (25.4)

Mechanical Properties - Tensile

Shielding Medium	Test No.	Testing Conditions	Tensile Strength, psi (MPa)	Yield Strength, psi (MPa)	Elongation, % in 2"
C1 (100% CO2)	2065465	As Welded	80,350 (554)	65,266 (450)	28.2

Mechanical Properties – Impacts

Shielding Medium	Test No.	Testing Conditions	Temperature, ºF (ºC)	Individuals, ft-lb (J)	Average, ft-lb (J)	Type
C1 (100% CO2)	2065465	As Welded	-20 (-30)	72, 73, 78 (98, 100, 106)	74 (101)	Charpy V-Notch

Chemistry Analysis

Shielding Medium / Test No	C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo					
None / 2065465	0.07	1.47	0.018	0.020	0.85	0.14	0.03	0.001	0.01	0.001					

Other:

- **External**: Pass
- **Surface:** Pass

David A. Thomas, Quality 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.