



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: | 09/2024 |
| Lot Nos. Shipped: | 4081965 | 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) | 2409143 | As Welded | 81,946 (565) | 66,137 (456) | 27.6 |

Mechanical Properties – Impacts

| Shielding Medium | Test No. | Testing Conditions | Temperature, °F (°C) | Individuals, ft-lb (J) | Average, ft-lb (J) | Type |
|------------------|----------|--------------------|-------------------------|-----------------------------|-----------------------|----------------|
| C1 (100% CO2) | 2409143 | As Welded | -20 (-30) | 69, 72, 78 (94, 98, 106) | 73(99) | Charpy V-Notch |

Chemistry Analysis

| Shielding Medium / Test No | C | Mn | P | S | Si | Cu | Cr | V | Ni | Mo | | | | | |
|----------------------------------|------|------|-------|-------|------|------|-------|-------|------|-------|--|--|--|--|--|
| None / 2409143 | 0.08 | 1.44 | 0.013 | 0.012 | 0.88 | 0.13 | 0.036 | 0.001 | 0.01 | 0.001 | | | | | |

Other:

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

James Owens, Quality Assurance 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.