



101 Trade Square East  
Troy, Ohio 45373 937-332-4000

## CERTIFIED MATERIAL TEST REPORT

Date Report Generated : 8/24/2016  
Test Date: 7/22/2016

Hobart Reference: \_\_\_\_\_  
Hobart Order: 60098/01  
Part Number: S119944-033  
Distributor: ITW DUBAI

Customer Reference: \_\_\_\_\_  
Customer Order: PO16/10311  
Customer : \_\_\_\_\_

### PRODUCT INFORMATION

Product Type: <u>Hobart 418</u>	Diameter: <u>1/8</u>
Classification: <u>E7018 H4R / E7018-1 H4R</u>	Lot #: <u>27W293</u>
Quantity: <u>3,200 lbs</u>	Heat #: <u>48185</u>

### TEST SPECIFICATION

Test Specification: <u>AWS A5.1/ASME SFA 5.1</u>	Test Condition: <u>As Welded</u>
AWS A5.01 Lot Class: <u>C1</u> , Level of Testing: <u>Schedule J</u>	

### WELDING PROCEDURE

Lab Test #: <u>PD1846</u>	Amps <u>140</u>	Volts <u>24</u>	Polarity <u>DCEP</u>
Number of Layers <u>6</u>	Pass Sequence <u>2,2,2,2,2,2</u>	Position <u>Flat</u>	
Preheat Temperature <u>225°F</u>	Interpass Temperature <u>300°F</u>		

### TEST RESULTS

Tensile Testing Condition: <u>As Welded</u>					
Tensile (ksi): <u>79</u>	Yield (ksi/.02% offset): <u>62</u>	% Elongation in 2in: <u>33</u>			
Impact Testing Condition: <u>As Welded</u> Impact Type: <u>Charpy V-Notch</u>					
Test Temp (deg F) <u>-50</u>	Individuals (ft.lb)	55	61	60	Average (ft.lb): <u>59</u>
Radiographics: <u>Conforms</u>	Fillet Weld Test:	Hydrogen (ml/100g): <u>3.0</u>			
Hardness: <u>n/a</u>	Horizontal <u>n/a</u>	Total Moisture:			
X-Factor: <u>n/a</u>	Overhead <u>Conforms</u>	Method: <u>n/a</u>			
Ferrite: <u>n/a</u>	Vertical <u>Conforms</u>	Result: <u>n/a</u>			

### CHEMISTRY

C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo
0.05	0.96	0.007	0.012	0.57	0.056	0.04	0.001	0.061	0.01

*Stephen K. Will*

8/24/2016

Quality Engineer

Date

#### Certification and Limited Warranty Agreement

The information contained or otherwise referenced herein is presented without guarantee or warranty and Hobart Brothers expressly disclaims any liability incurred from any reliance thereon. Data for the above supplied product are those obtained when welded and tested in accordance with the above specification with electrode of the same manufacturing processes and material requirements. All tests for the above classification were satisfied. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart Brothers. Hobart Brothers produces welding consumables under continuing quality assurance programs audited and approved by American Bureau of shipping (ABS)

