QAI LABORATORIES
CERTIFICATION TESTING INSPECTION

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CLIENT: **Sculptform**
9 Gray St, Golden Square
VIC 3555, Australia, Australia

Test Report No: RJ9109F-1	**Date: August 31, 2023**

SAMPLE ID: The following test material was identified as: ***Aluminum Core Sample.***

SAMPLING DETAIL: Test Samples were submitted to the Laboratory directly by the client. No sampling or sample preparation was observed by QAI staff.

DATE OF RECEIPT: The samples were received at QAI Laboratories on August 01, 2023.

TESTING PERIOD: August 23, 2023.

AUTHORIZATION: QAI Test Proposal 23DN0705-03 signed by Bradley Schwartz on July 05, 2023.

TEST REQUESTED: ASTM E136-19a "Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace of 750ºC".

TEST RESULTS: The tested material was considered to be non-combustible.

CONCLUSION: The submitted samples ***has met*** the classification as a non-combustible per testing to ASTM E136. See requirements on page 2.

Prepared By

Victor A Peinado

Victor A Peinado
Fire Lab Supervisor

Signed for and on behalf of
QAI Laboratories, Inc.

Jason Friedrich P.E.
Engineering Manager

CONDITIONING: Test samples were submitted in pieces, 1 1/2" by 1 1/2" by 2". The test specimens were dried at 60 ± 3°C (140 ± 5°F) for not less than 24 hr. but no more than 48 hr and then placed in a desiccator to cool at least 1 hr. before testing.

PROCEDURE: A *Vertical Hot-Air Ignition Furnace,* QAI Asset Number RG613 similar to that shown below in Fig. 1, consisting of an electrical heating unit and a specimen holder, was set at a temperature of 1382 ± 10°F (750 ± 5.5°C). Thermocouples were attached to the surface and geometric center of the specimen. The specimen is lowered into the furnace. Observations are made to the time of flaming of the specimen. The temperatures of the thermocouples are recorded. The test is continued until the temperature at the thermocouples has reached maximum, or until it is evident that the specimen does not pass this test.

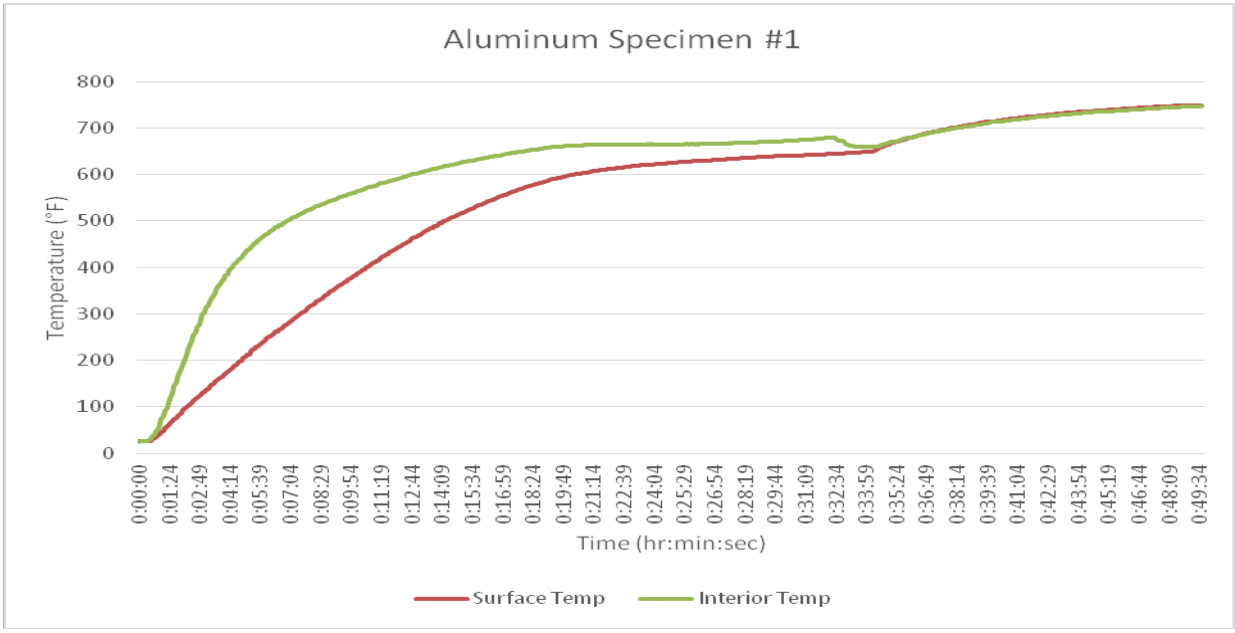
TEST RESULTS: ***Aluminum Core Sample***

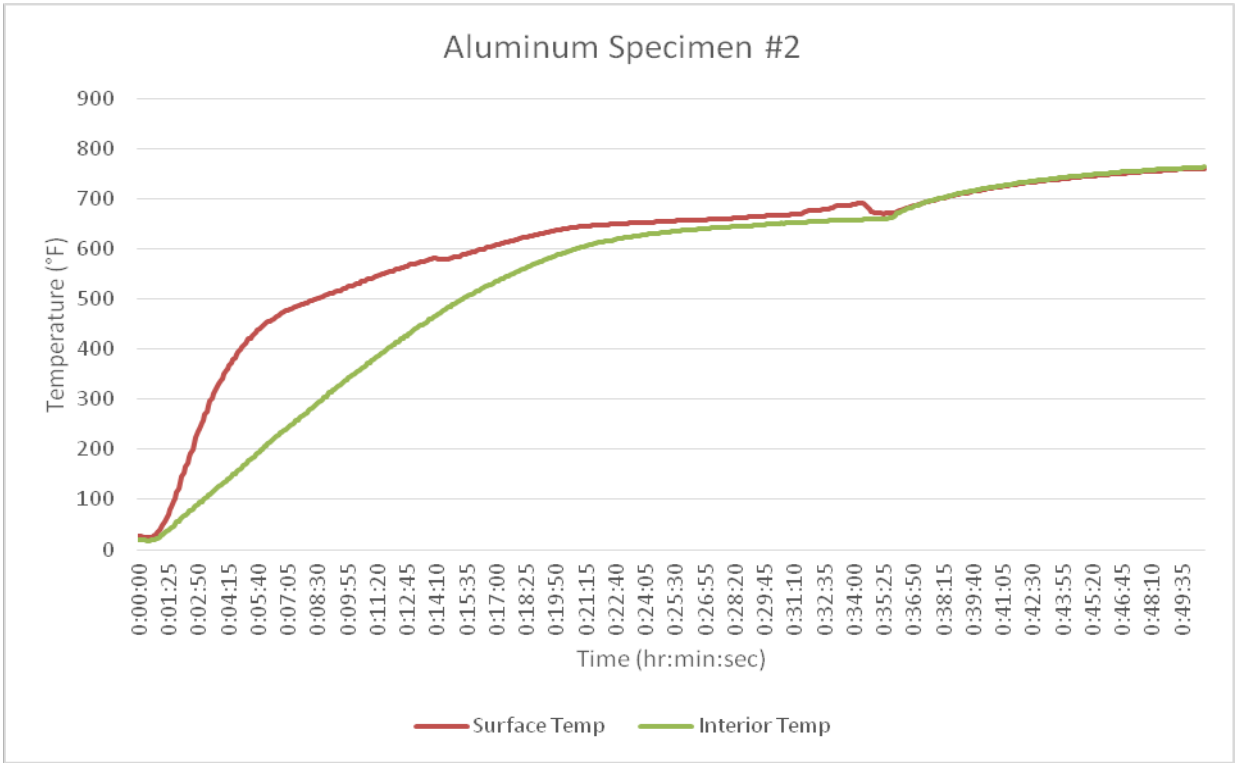
Specimen #	***Furnace Temper-ature ºC***	***Surface Temper-ature ºC***	***Interior Temperature ºC***	***Initial weight (G)***	***Final Weight (G)***	***Weight loss%***	***Duration of Test (hr:min)***
1.	754	750	748	205.6	204.5	0%	49:00
2.	754	761	763	203.4	201.4	0%	50:00
3.	754	740	730	205.4	202	1%	61:00
4.	754	740	737	205.7	202.5	1%	60:00

REQUIREMENT: Record the material passing the test if at least three of the four specimens tested meet the individual test specimen criteria.

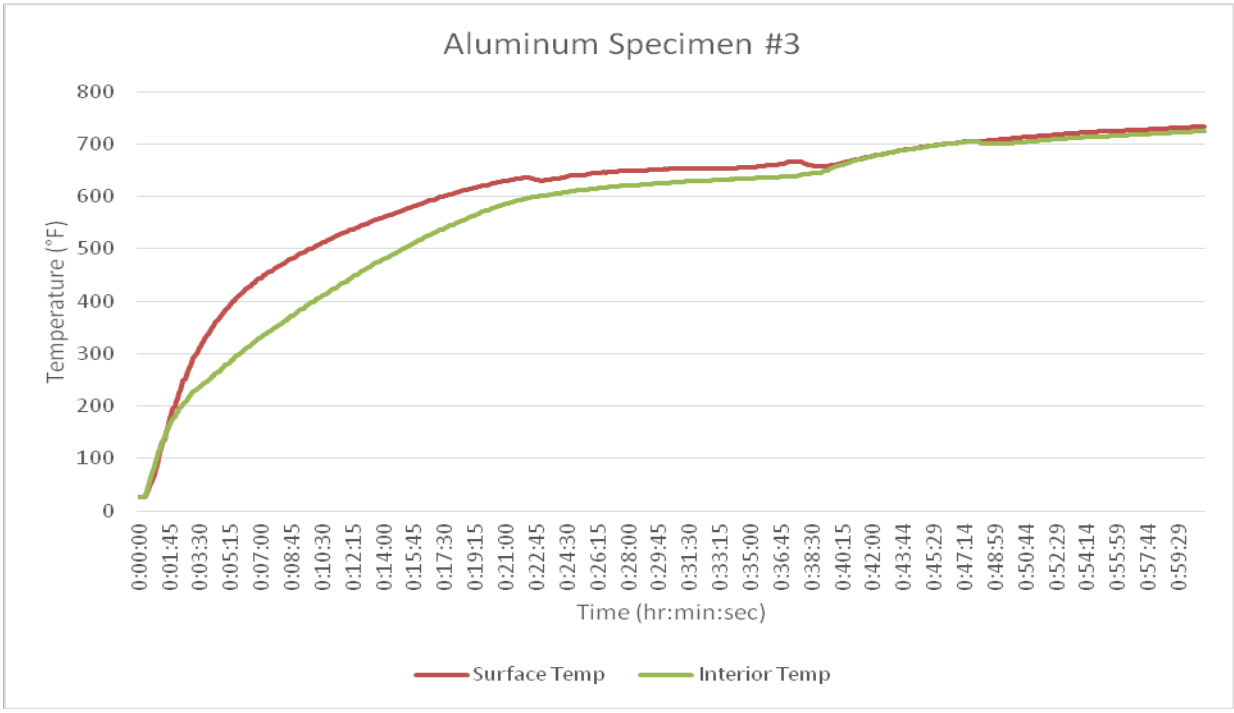
When the weight loss of the test specimen is 50% or less, the material passes the test if, the recorded temperatures of the surface and interior thermocouples do not at anytime during the test rise more than 30ºC (54ºF) above the stabilized furnace temperature and there is no flaming of the specimen after the first 30 seconds. If the weight loss of the specimen exceeds 50%, the material passes the test if, the recorded temperatures of the surface and interior thermocouples do not at anytime during the test rise above the stabilized furnace temperature and no flaming of the specimen is observed at any time during the test.

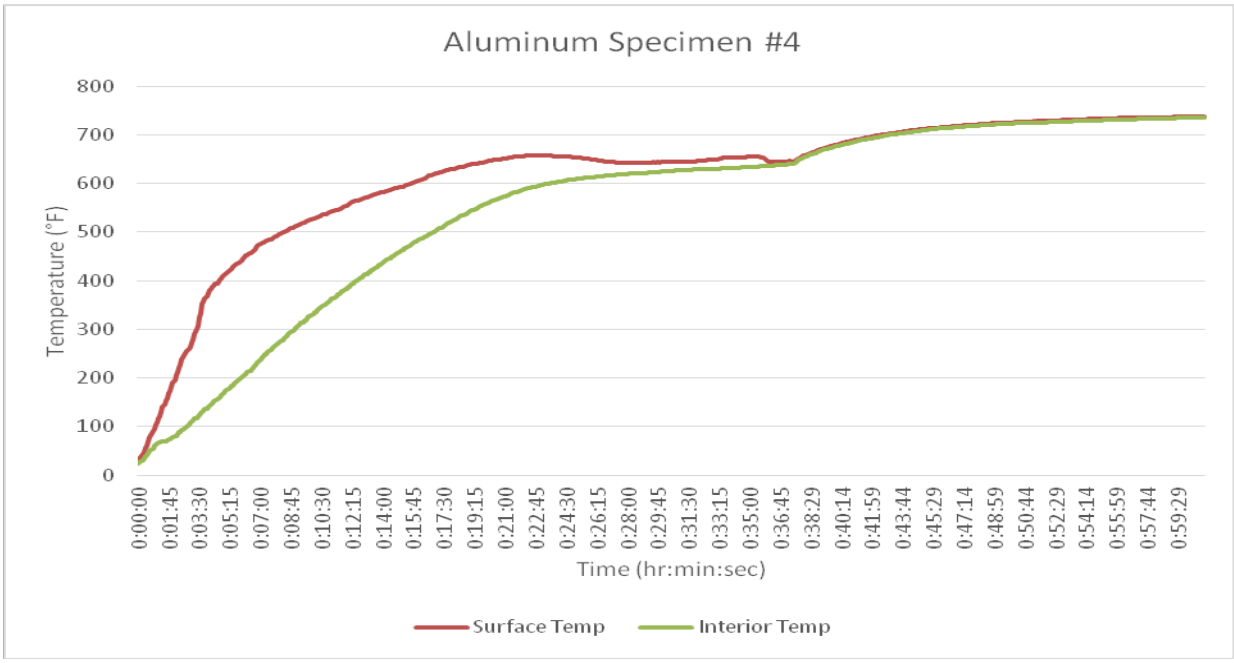
Graphs



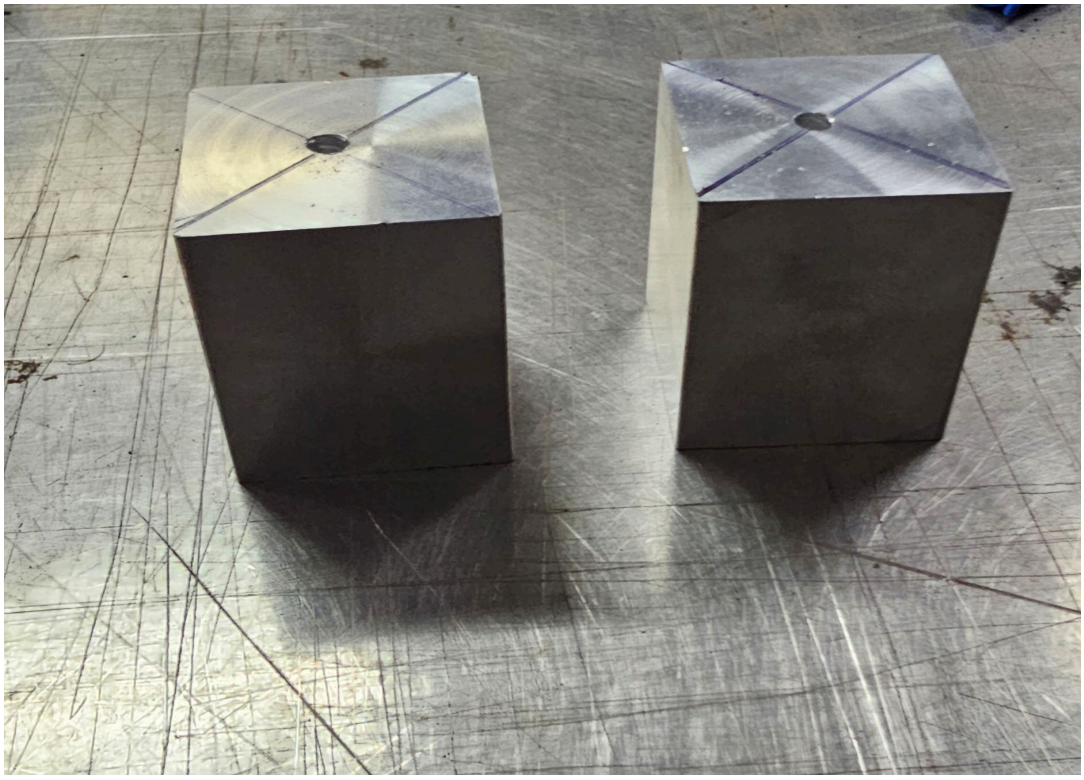


Graphs





Photographs



Photo#1: *Aluminum Core Sample.*

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