

# JINCHENG MAGNESIUM

## TEST REPORT

**SCOPE OF WORK**

MgO Board

**REPORT NUMBER**

210803005SHF-001

**TEST DATE(S)**

2021-08-03 - 2021-08-11

**ISSUE DATE**

2021-08-11

**PAGES**

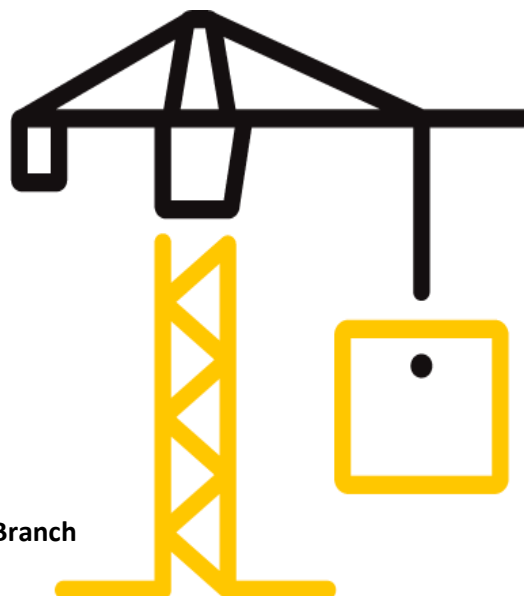
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**DOCUMENT CONTROL NUMBER**

LFT-APAC-SHF-OP-10k(May 1, 2021)

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## Test Report

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## Test Report

Issue Date: 2021-08-11 Intertek Report No. 210803005SHF-001  
 Applicant: JINCHENG MAGNESIUM MATRIX (JIANGSU) INTERNATIONAL TRADE CO., LTD  
 Address: NO.9 DAIWANG ROAD OF HIGH TECH INDUSTRIAL ZONE OF CHENGDONG, TAIXING CITY, JIANGSU PROVINCE.  
 Attn: DAVID ZHAO  
 Test Type : Performance test, samples were selected by Intertek B&C personnel

### Product Information

|                           |                |                      |            |
|---------------------------|----------------|----------------------|------------|
| <b>Product Name</b>       | MgO Board      | <b>Brand</b>         | MagMatrix  |
| <b>Sample Description</b> | Good Condition | <b>Sample Amount</b> | 8 pcs      |
|                           |                | <b>Received Date</b> | 2021-08-03 |
| <b>Sample ID</b>          | <b>Model</b>   | <b>Specification</b> |            |
| S210803005SHF.001         | /              | 12mm                 |            |

### Test Methods And Standards

|                               |   |
|-------------------------------|---|
| <b>Test Standard</b>          | ASTM E136-19a Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C, Option A |
| <b>Specification Standard</b> | ASTM E136-19a   |
| <b>Test Conclusion</b>        | The samples were tested according to the above standards, and the results are shown in the following page.                    |

#### Note:

1. This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

### Report Authorized


  
 Name: Harrison Li      Name: Jay Gong  
 Title: Reviewer      Title: Project Engineer

# Test Report

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Intertek Report No. 210803005SHF-001

**Test Items, Method and Results:**

Test method: ASTM E136-19a Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C, Option A

**1.1 Sample and Assembly Description**

Sample Description:

Approximately 38mm long × 38mm wide × 49mm thick MgO Board were provided by the applicant. One specimen was consisted of four 12.2mm thick panel, which was wrapped by wire.

**1.2 Test Criteria**

Report the material as passing the test if at least three of the four test specimens tested meet the individual test specimen criteria detailed in 1.2.1 or 1.2.2. The three test specimens do not need to meet the same individual test specimen criteria.

1.2.1 If the weight loss of the test specimen is 50% or less, the following criteria must be met:

- a. The recorded temperatures of the surface and interior thermocouples do not at anytime during the test rise more than 30°C (54°F) above the stabilized furnace temperature measured at T2 prior to the test.
- b. There is no flaming from the test specimen after the first 30 s.

1.2.2 If the weight loss of the test specimen exceeds 50%, the following criteria must be met:

- a. The recorded temperature of the surface and interior thermocouples do not, at any time during the test, rise above the stabilized furnace temperature measured at T2 prior to the test.
- b. No flaming from the test specimen is observed at any time during the test.

**1.3 Results and Observations**

| Specimen # | Observations                   |
|------------|--------------------------------|
| 1          | Sample did not smoke or flame. |
| 2          | Sample did not smoke or flame. |
| 3          | Sample did not smoke or flame. |
| 4          | Sample did not smoke or flame. |

| Specimen Number | Initial Wt. (g) | Final Wt. (g) | Wt. Loss(%) | Stabilized Furnace Temperature (T2) (°C) | Max Surface (T4) (°C) | Max Surface Difference (°C) | Max interior Temp. (T3) (°C) | Max interior Difference (°C) |
|-----------------|-----------------|---------------|-------------|--|-----------------------|-----------------------------|------------------------------|------------------------------|
| 1               | 77.8            | 51.4          | 33.9        | 750.4                                    | 746.6                 | -3.8                        | 742.8                        | -7.6                         |
| 2               | 78.1            | 51.3          | 34.3        | 749.5                                    | 741.5                 | -8.0                        | 739.2                        | -10.3                        |
| 3               | 77.8            | 51.3          | 34.1        | 749.5                                    | 744.4                 | -5.1                        | 744.4                        | -5.1                         |
| 4               | 78.6            | 51.8          | 34.1        | 750.4                                    | 751.5                 | 1.1                         | 746.1                        | -4.3                         |
| Average         | 78.1            | 51.5          | 34.1        | 750.0                                    | 746.0                 | -4.0                        | 743.1                        | -6.8                         |

Note: The final temperature reading shall be recorded as the maximum temperature as per Clause 8.7.2 and 8.7.3.

**2 Conclusion**

The test specimens met the requirement of ASTM E136.

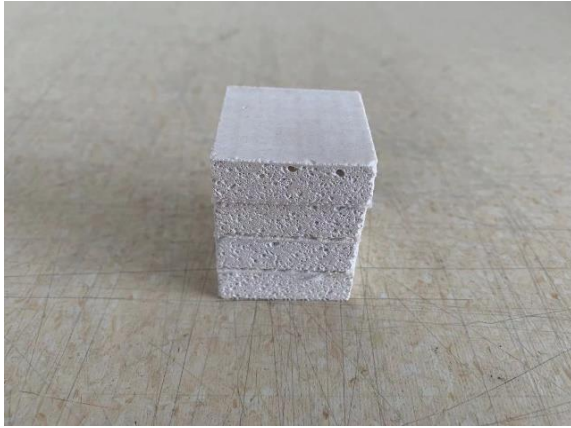


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### Appendix A: Sample Received Photo



### Revision:

| NO.              | Date       | Changes     |
|------------------|------------|-------------|
| 210803005SHF-001 | 2021-08-11 | First issue |