

**CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH
EN 13501-1:2018**

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|----------------------------------|---|
| Sponsor | : AFS BORU SANAYİ A.Ş. İvedik OSB 1468. Cadde, No: 153 6370, Ostim, Ankara/ TÜRKİYE |
| Tested and prepared by | : EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. Dilovası OSB Mah. Fırat Cad. No: 18 Dilovası, Kocaeli / TÜRKİYE |
| Product name | : ISOAFS-ALU HYGIENE ECOSOFT |
| Classification Report no. | : ERA – 21 – 230 – REV1 |
| Issue Number | : 1/2 |
| Date of Issue | : 12.05.2023 |
| Remarks | : This report supersedes the report numbered ERA-21-230 due to its validity period has been extended. |

This classification report consists of 5 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to “ISOAFS-ALU HYGIENE ECOSOFT” in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

ISOAFS-ALU HYGIENE ECOSOFT is defined as a “type of classified product”.

2.2. Description:

ISOAFS-ALU HYGIENE ECOSOFT is fully described in the test reports in support of the classification listed in clause 3.1.

Manufacturing plant: AFS BORU SANAYİ A.Ş.

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Tested product types:

| Product name | Mineral wool | | Polyurethane based glue | Polyester lamination | Aluminium foil | Total product thickness (mm) |
|----------------------------|------------------------------|----------------|---------------------------------|----------------------|----------------------|------------------------------|
| | Density (kg/m ³) | Thickness (mm) | Consumption (g/m ²) | Total thickness (µm) | Total thickness (µm) | |
| ISOAFS-ALU HYGIENE ECOSOFT | 16 | 25 | 6,5 | 24 | 27 | 25,12 |

3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

| Name of laboratory | Name of sponsor | Report ref. no. | Test method and date Field of application rules and date |
|---|----------------------|-----------------|---|
| EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. | AFS BORU SANAYİ A.Ş. | FTST211056 | EN 13823:2020 |
| | | FTST211057 | EN ISO 11925-2:2020 |
| | | FTST211058 | EN ISO 11925-2:2020 |

3.2. Results

| Test method | Parameter | Number of test | Results | |
|--|--|----------------|---------------------------|-----------------------|
| | | | Continuous parameter mean | Compliance parameters |
| EN 13823 | FIGRA _{0,2 MJ} (W/s) | 3 | 505,9 | (-) |
| | FIGRA _{0,4 MJ} (W/s) | 3 | 30,3 | (-) |
| | LFS > edge | 3 | No | No |
| | THR _{600 s} (MJ) | 3 | 1,7 | (-) |
| | SMOGRA (m ² /s ²) | 3 | 8,8 | (-) |
| | TSP _{600 s} (m ²) | 3 | 15,8 | (-) |
| | Flaming droplet(s)/particle (s) | 3 | None | None |
| EN ISO 11925-2 Flame exposition: 30 s | F _s ≤ 150 mm ⁽¹⁾ | 6 | Yes | Yes |
| | ignition of filter paper ⁽¹⁾ | 6 | No | No |
| | F _s ≤ 150 mm ⁽²⁾ | 6 | Yes | Yes |
| | ignition of filter paper ⁽²⁾ | 6 | No | No |
| (-): Not applicable (1): Surface flame attack (2): Edge flame attack | | | | |

| Test method | Parameter | Classification result | Compliance parameters |
|---------------------|--|-----------------------|-----------------------|
| EN 13823 | FIGRA _{0,4 MJ} [W/s] | 30,3 | ≤ 250 (C) |
| | LFS > edge | No | No (C) |
| | THR _{600 s} (MJ) | 1,7 | ≤ 15 (C) |
| | SMOGRA [m ² /s ²] | 8,8 | ≤ 30 (s1) |
| | TSP _{600 s} [m ²] | 15,8 | ≤ 50 (s1) |
| | Flaming droplet(s)/particle (s) | None | None (d0) |
| EN ISO 11925-2 | F _s ≤ 150 mm | Yes | Yes (B – D) |
| | Ignition of filter paper | No | No (d0) |
| (-): Not applicable | | | |

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 11.5, 11.9.2 and 11.10.1 of EN 13501-1:2018.

4.2. Classification

ISOAFS-ALU HYGIENE ECOSOFT in relation to their reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for *ISOAFS-ALU HYGIENE ECOSOFT* is:

| Fire behaviour | | Smoke production | | | Flaming droplets | |
|----------------|---|------------------|---|---|------------------|---|
| C | - | s | 1 | , | d | 0 |

Reaction to fire classification: C-s1,d0

4.3. Field of application

This classification is valid for the following product parameters:

| Product name | Mineral wool | | Polyurethane based glue | Polyester lamination | Aluminium foil | Total product thickness (mm) |
|----------------------------|------------------------------|----------------|---------------------------------|----------------------|----------------------|------------------------------|
| | Density (kg/m ³) | Thickness (mm) | Consumption (g/m ²) | Total thickness (µm) | Total thickness (µm) | |
| ISOAFS-ALU HYGIENE ECOSOFT | 16 | 25 | 6,5 | 24 | 27 | 25,12 |

This classification applies to the following end-use conditions:

- Applications without an airgap between the product and the backing board.

5. LIMITATIONS

5.1. Restrictions

This classification report does not represent type approval or certification of the product. This classification report is valid provided that the technical specifications of product are within the limits in accordance with the field of application clause 4.3. This report is initially valid until **12th May 2028** providing that no significant modifications are made in technical specification of the specimen and related test and classification standards.

Signed:

Approved:



e-signed

e-signed

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