

REPORT NUMBER : DCATCPE A345 23 39 - 3

DATE OF ISSUE : 23 / 02 / 2024

FIRE HAZARD TEST ON CONDUIT SYSTEMS FOR CABLE MANAGEMENT- RIGID CONDUIT SYSTEMS

REF 16

CUSTOMER : CSP - COMPTOIR SFAXIEN DU PLASTIQUE

ADDRESS : ROUTE DE TUNIS KM 13 Z.I. SIDI SALAH SFAX 3021 TUNISIE

Reproduction of this report is only authorized in its integral form, unless written agreement by the CETIME.
Certain services reported in this document are not covered by the accreditation. They are identified by the
symbol *

| | |
|--|---|
| <p>Realized by :</p> <p>Technical Manager</p> <p>Nawel BEN MARZOUK</p>  | <p>Checked and approved by :</p> <p>Director of Electrical Direction</p> <p>Hamadi TRIGUI</p>  |
|--|---|

This report contains 3 pages

Référence : FT7.1

Révision : 12



ESSAIS
REFERENTIEL ISO/IEC 17025:2017
NUMERO D'ACCREDITATION : 2-0002

- Siège social: GP7, Zone Ind Ksar Said
2010 La Manouba - Tunisie
- Sousse: CRT Sousse - Pôle de Compétitivité
Hammam Maarouf - 4000 - Sousse- Tunisie
- Sfax: Technopôle 3021 Sfax

- (216) 70 146 000 (216) 70 146 071
- (216) 73 822 967 (216) 73 822 966
- (216) 74 867 770 (216) 74 867 777

- المقر الإجمالي: ط و 7 المنطقة الصناعية قصر سعيد
منوبة - تونس - 2010
- سوسة: م.م. التكنولوجيا - القطب التكنولوجي
حمام معروف - 4000 - سوسة - تونس
- صفاقس: القطب التكنولوجي 3021 صفاقس

contact@cetime.com.tn

www.cetime.tn

M.F : 14322PAN000

TEST DATE : from 19/02/2024 to 23/02/2024

SAMPLE TESTED :

| | |
|----------------------------------|---|
| Date of Receipt : | 19/02/2024 |
| Customer : | CSP - COMPTOIR SFAXIEN DU PLASTIQUE |
| Type of Product : | CONDUIT SYSTEMS FOR CABLE MANAGEMENT- RIGID CONDUIT SYSTEMS |
| Description of product | CONDUIT SYSTEMS FOR CABLE MANAGEMENT- RIGID CONDUIT SYSTEMS- REF 16 |
| Sample storage before disposal : | One year |

TEST CONDITIONS :

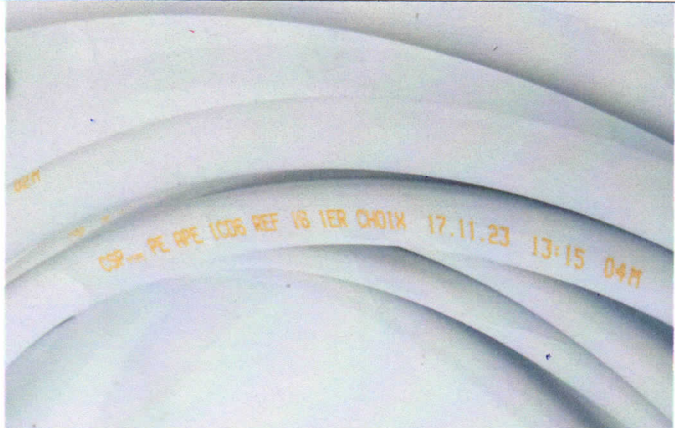
- This test report certifies only the characteristics of the Samples submitted for testing and does not prejudge the characteristics of similar products.
- The sample tested is delivered by customer
- The test program consists of carrying out the fire propagation test.

TEST METHOD :

| | |
|---------------------------------|---|
| Standards : | <ul style="list-style-type: none"> • IEC 61386-1:2008+AMD1:2017 CSV • IEC 61386-21:2021 |
| Specific test conditions | <ul style="list-style-type: none"> • TEMPERATURE : 22.5°C • Humidité :--- |
| Abbreviations | <ul style="list-style-type: none"> • P : pass • F : fail |

TEST RESULTS

IDENTIFICATION :

| | |
|---|--|
| <p>CSP PIPE PE APE ICD6 REF 16 1^{ER}</p> <p>CHOIX 17.11.23</p> |  |
|---|--|

| 7 MARKING AND DOCUMENTATION (*) | | | |
|---------------------------------|---|--------|---------|
| Clause No. | Prescription | Result | verdict |
| 7.1 | Each conduit shall be marked with – the manufacturer's or responsible vendor's name or trade mark or identification mark, | CSP | P |
| 7.1 | – a product identification mark, which may be, for example, a catalogue number, a symbol or the like, in such a way that it can be identified in the manufacturer's or responsible vendor's literature. | REF16 | P |
| 7.1.1 | The conduit or smallest supplied package shall also be marked with the classification code, in accordance with Annex A, and shall include at least the first four digits | -- | -- |
| 7.1.2 | The manufacturer shall be responsible for indicating the compatibility of parts within a conduit system | -- | -- |



| | | | |
|-------|---|-----|----|
| 7.1.3 | The manufacturer shall provide in his literature its classification in accordance with Clause 6 and all information necessary for the proper and safe transport, storage, installation and use. | --- | -- |
| 7.2 | The conduit fitting shall be marked in accordance with 7.1, on the product wherever possible, but, where this is impractical, then the mark may be on a label attached to the product, or on the smallest supplied package Tout accessoire de conduit doit être marqué selon 7.1. | --- | -- |
| 7.3 | Flame propagating material shall be orange in colour. It shall not be coloured orange by painting or other superficial means. | --- | -- |
| | Flame propagating conduits shall also be marked with the following symbol: IEC 60417-6180:2013-01 | --- | -- |
| 7.4 | Earthing facilities shall be indicated by the symbol for protective earth in accordance with IEC 60417, symbol IEC 60417-5019 (2006-08). This marking shall not be placed on easily removable parts, for example screws. | | |
| 7.5 | Compliance with 7.1 to 7.4 is checked by inspection. | Yes | p |
| 7.6 | The marking shall be durable and clearly legible. Compliance is checked by inspection, using normal or corrected vision, without additional magnification and by rubbing the marking for 15 s with a piece of cotton cloth soaked with water and again for 15 s with a piece of cotton cloth soaked with n-hexane 95 %1. | Yes | p |

| | | | |
|--|-------------------------------------|-------------|---------|
| 13 FIRE HAZARD-SPREAD OF FIRE : | | | |
| Clause No. | Prescription | Result | verdict |
| 13 + ANNEX B | Détermination of material thickness | See TABLE 1 | P |
| | Fire hazard | See TABLE 2 | P |

TABLE 1 - Détermination of material thickness

| Conduit REF 16 | SAMPLE 1 | SAMPLE 2 | SAMPLE 3 |
|-------------------|-----------------------------|----------|----------|
| measure 1 (mm) | 1.85 | 2.06 | 2.11 |
| measure 2 (mm) | 1.67 | 2.01 | 2.11 |
| measure 3 (mm) | 2.18 | 1.88 | 2.09 |
| measure 4 (mm) | 2.21 | 1.89 | 1.87 |
| average (mm) | 1.98 mm | 1.96 mm | 2.04 mm |
| Average mm | 1.99 mm | | |
| normalized margin | 1.5 mm < thickness ≤ 2,0 mm | | |

TABLE 2 - Fire hazard



| | |
|---|---------------|
| Conditions of test : | |
| used Gas | Propane |
| Length échantillon | (675 ± 10) mm |
| thickness | 1.99 mm |
| Time of exposure of the sample to the flame | 35 s |
| Temps d'extinction | 30 s |

| SAMPLE | flaming or glowing of the sample is extinguished within 30 s after removal of the test flame, | the tissue paper does it ignite | after extinction of the flaming or glowing of the sample, there is no evidence of burning or charring within 50 mm of the lower extremity of the upper clamp |
|--------|---|---------------------------------|--|
| 1 | Yes | yes | Yes |
| 2 | Yes | yes | Yes |
| 3 | Yes | yes | Yes |

CONCLUSION :

The results of the tests carried out on the samples of conduit systems for cable management- rigid conduit systems- REF 16 are judged to comply with the standards cited in reference.

Tested by :

| | |
|---|---|
| Nawel BEN MARZOUK | Kais BEN NCÏR |
|  |  |

FIN DU RAPPORT

