

Test Report

No. 2008-B-0206/06

1. Issue

Client: G + H Isolierung GmbH
Leuschnerstraße 2
D-97084 Würzburg

Order of: 17th January 2008

Incoming Date : 17th January 2008

Content of Order: Carrying out of a test on electric cables under fire conditions according to DIN EN 50266-2-2, (A); (IEC 60332-3-22 Cat. A)
The ladder wrapped with the bandage „G + H Pyroment® KVB 2000 / W“.

Test material: Arrangement of the cables similar to the DIN 4102 part 9

Sampling: MPA Dresden GmbH was not involved in any selection or sampling procedure.

This test report contains 3 pages.



Publications of test reports also in the form of extracts and references to tests for advertising need in every case the written agreement of the test institute. Every page of these test report is stamped with the official seal of the test institute.

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1 Kind of Test

Test on electric cables under fire conditions according to DIN EN 50266-2-2, Cat. A. This part of DIN EN 50266-2-2 covers category A and relates to cables installed on the test ladder to achieve a nominal total volume of non-metallic material of 7.0 l per metre of test sample.

2 Description of Test Sample

Follow cables were delivered by the client to the MPA Dresden GmbH.

- 1 piece with a length of 3.60 m: N2XSEY 3x185 RM/25, 6/10kV
- 1 piece with a length of 3.60 m: NYY-J 3x185/95
- 1 piece with a length of 3.60 m: NAYY-J 4x185
- 3 pieces with a length of 3.60 m: N2XSY 1x150 RM/25, 6/10kV
- 6 pieces with a length of 3.60 m: NYY-O 4x10
- 12 pieces with a length of 3.60 m: NYY-O 5x1.5

3 Test procedure

The test pieces have a nominal total volume of non-metallic material > 7.0 l/m. The test samples were straightened and stored at room temperature.

The test samples were attached to the ladder starting from the centre with no space between each test sample. The ladder was wrapped with the bandage „G + H Pyroment® KVB 2000 / W“. Afterwards the ladder was placed vertically in the test chamber. The test samples were placed at the front of the ladder faced to the burner.

The air input at the bottom agreed with the standard and an average temperature of 21 °C was measured.

The burner was run with a propane - air - mixture. Before starting the test the flow rate of propane and air was adjusted according to the standard and the local climatic conditions.

The flow of the propane - air - mixture was inside the tolerances during the complete testing time.

The temperature inside the test chamber was 21 °C at the beginning of the test.

The test rig stands in a testing hall so that external wind speed can be neglected.

All other requirements of the above mentioned test standard was fulfilled.

The test flame was applied for 40 min.

The test was carried out at 05th of March 2008.

4 Evaluation

After the flame application time of 40 minutes the burner was turned off. The burning was ceased after immediately after the completion of the test flame period.

Afterwards the ladder was taken from the test rig. There were damages at the test samples. The maximum extent of the damage at the bandage had reached a height of 0.96 m from the bottom edge of the burner. The maximum allowable extent of the charred portion, which is defined as a height exceeding 2.50 m above the bottom edge of the burner, was not reached. Subsequently, the bandage was removed. The damages at the cables had a height of 0.57 m.



The arrangement of the cables similar to the DIN 4102 part 9, wrapped with the bandage „G + H Pyroment® KVB 2000 / W“ had passed the test on electric cable under fire conditions according to DIN EN 50266-2-2, Cat. A.

In a second test without the cable bandage, the cables had not passed the test on electric cable under fire conditions according to DIN EN 50266-2-2, Cat. A.


The test was terminated after 10 minutes. The damages at the cables had a height > 2.50 m.

5 Special Comments

This test report is only valid for the described cable (see clause 2) wrapped with the bandage „G + H Pyroment® KVB 2000 / W“. All designations were given by the manufacturer.

This test report is valid up to the **30th of March 2011**. The validity can be prolonged by application.

Freiberg, 31st March 2008


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