17e26 – Ball Pressure Test

INSTRUCTIONS

Due Date for Results: 24th April 2017

Introduction:
Based on the applicable standard, this PTP has been divided into 2 separate proficiency testing programs.

- Equipment audit
- Test Work

Equipment Audit:

The equipment audit can be downloaded from: 17e26 Equipment Audit

Participants are reminded that compliance to the equipment definitions in the standard is required every day that the standard is applied.

Test results generated by non-compliant equipment are invalid.

Therefore, PRIOR TO SUBMISSION of the equipment audit form, participating laboratories are strongly advised to compare their findings with the requirements of the standard and to rectify the equipment so that compliance is assured prior to performing any further test work.

The outcome of the Equipment Audit will be advised within 5 working days of receipt of the completed form by IFM. Equipment Audit failures will be treated as follows:

1. An outlier entry for the PTP will be immediately recorded.
2. Requirement for full root cause analysis and corrective action report relating to the use of non-compliant equipment, including consideration of withdrawal of previous test reports. (Root cause analysis and corrective actions must be completed prior to testing in accordance with OD 5004.) When submitting corrective action laboratories should ensure that they address all items listed in: QPF086-01 Corrective Action Management for Electrical PT
3. Exclusion of data from the statistical calculations in the PTP. (Participants will be assessed, but their data will not contribute to the consensus statistics.)
4. CB scheme laboratories please note: On the PT program Due Date for Results, all unresolved equipment deficiencies will be referred to the IEC-EE for GNCR.
Test Work:

The below instructions relate to the Test Work.

Program Aim:
By completing this section, participants will gain an objective measure of their performance of the tests in comparison to other laboratories.

Reference Standards and other Applicable Documents

- OD 5014
- IEC 60216-4-1 Edition 4.0: 2006
- Product standards calling up IEC 60695-10-2
- ISO/IEC 17025:2005

Test Set-up

- Prior to testing, ensure any deficiencies arising from the equipment audit are corrected and verified.
- Condition the samples in accordance with the standard.
- Samples may be re-tested after the initial test. If re-tested, ensure sample is washed and reconditioned between each test.

Sample Testing

1. In all cases, perform test work and report result in accordance with the standard.
2. The available temperatures are 120 °C, 150 °C and 160 °C. Please report the results from duplicate tests.
3. Perform the Ball Pressure Tests at the requested temperatures that are within your laboratory’s scope of operation.
4. Report the diameter of the indentation in mm, using an appropriate number of significant figures for the MU of your testing work.
5. If your laboratory normally reports “pass” or “fail” results, please also report this in the appropriate result field.
**INSTRUCTIONS**

Due Date
- Results will not be accepted via the online result entry facility after the due date. Results submitted after the due date will only be accepted upon payment of an AUD$250 late fee.

**Reporting the results:**
An explanation of the questions can be found in Table 1 below.

For information regarding the reporting of results, please refer to the Result Entry Guide:
Internet Result Entry Guide - Electrical

**After testing and reporting**
Please retain the samples, your test notes and records, in the event a re-test is required.

**Questions/Comments?**
Please direct questions or comments to: ingridflemming@ifmqs.com.au

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**Table 1: Definitions**

<table>
<thead>
<tr>
<th>Question</th>
<th>Definition</th>
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<tbody>
<tr>
<td>E01 Cut?</td>
<td>Report Yes when the supplied test pieces were cut before testing. Otherwise report No</td>
</tr>
<tr>
<td>E02 Repeats</td>
<td>Report the number of sample units tested at each temperature</td>
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<tr>
<td>E03 Thickness</td>
<td>Report the total thickness of the items under test in mm, (including any stacking of samples)</td>
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<tr>
<td>Q01 BPT 120°C-1</td>
<td>Report the diameter of the indentation obtained for 120 °C Ball Pressure Test in mm test 1</td>
</tr>
<tr>
<td>Q02 BPT 120°C-2</td>
<td>Report the diameter of the indentation obtained for 120 °C Ball Pressure Test in mm test 2</td>
</tr>
<tr>
<td>Q03 BPT 120°C PF</td>
<td>Report “pass” or “fail” for the result of the ball pressure test at 120 °C</td>
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<tr>
<td>Q04 BPT 150°C-1</td>
<td>Report the diameter of the indentation obtained for 150 °C Ball Pressure Test in mm test 1</td>
</tr>
<tr>
<td>Q05 BPT 150°C-2</td>
<td>Report the diameter of the indentation obtained for 150 °C Ball Pressure Test in mm test 2</td>
</tr>
<tr>
<td>Q06 BPT 150°C PF</td>
<td>Report “pass” or “fail” for the result of the ball pressure test at 150 °C</td>
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<tr>
<td>Q07 BPT 160°C-1</td>
<td>Report the diameter of the indentation obtained for 160 °C Ball Pressure Test in mm test 1</td>
</tr>
<tr>
<td>Q08 BPT 160°C-2</td>
<td>Report the diameter of the indentation obtained for 160 °C Ball Pressure Test in mm test 2</td>
</tr>
<tr>
<td>Q09 BPT 160°C PF</td>
<td>Report “pass” or “fail” for the result of the ball pressure test at 160 °C</td>
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