

Intertek C&E Management System		Page 1 of 4
Work Instruction (Inspection)		Document No.: WI-R-EMEA-CERT-INSP-PCS030
EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS		
Issue Date:	Revision Date: 11 th Feb 2015	Approved by: Anders Delsborn
	Effective Date: 19 th Feb 2015	

1.0 Purpose

Product Control Specifications (PCS) specify the requirements for routine inspections, tests, Product Verification Tests and sample selection for products certified under an Intertek EU Type 5 certification scheme (including GS, S, BEAB, ASTA, ENEC, BAUART and TICK MARK). They are for use by manufacturers and by factory inspectors.

2.0 Scope

Products: Capacitor for use in tubular fluorescent and other discharge lamps circuits
Standards: EN 61048 and EN 61049
Marks: S, BG, ENEC and TICK-mark

3.0 Routine inspections and tests

3.1 General

The following requirements apply to most products.

Variations may be permitted by prior, written agreement from the certification body.

The factory should have a quality plan defining all inspections and tests on materials, components and completed products as appropriate.

Completed products shall be marked to confirm satisfactory completion of all required testing.

Any products which fail inspection or testing shall be segregated and not allowed to continue through the process until rectified and re-inspected or retested.

Products shall not be released until the testing equipment has been checked again following a production batch.

Records of inspections and test should be maintained and held for at least two years.

Records shall include:

- Type of product
- Date of test
- Place of manufacture
- Quantity tested
- Number of failures and actions taken

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3.2 Required inspections and tests (for Intertek Certification Marks)

Inspection/test	Test parameters	Sampling plan
Satisfactory appearance, correct and clear markings and any instructions	Visual inspection	100%
Check of capacitance	Rated values	100%
Sealing and heating test where applicable	Type A: No leakage of impregnant or filling material – not become open-circuited Type B: No bubbles shall be visible	100%
Dielectric strength test between terminals - min. 1s	2,15xU – non self-healing capacitors 2xU – self-healing capacitors	100%
Dielectric strength test between terminals and container (only if not insulating material) - min. 1s	≤ 250V – 2000V > 250V – 2500V	100%

3.3 Required inspections and tests (for ENEC Marked products)

In addition to the inspections and tests detailed in section 3.2, the requirements of document ENEC 303 Annex N shall be fulfilled.

4.0 Product Verification Tests/Periodic testing (refer to CIG 021 clause 4.8)

Product verification tests are in addition to the production line inspection and routine tests and are performed on samples taken randomly from the production line.

The manufacturer is responsible for conducting or arranging for the following periodic testing to be completed. Records shall be available for review during factory inspection visits.

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Certification Mark	Frequency	PVT/periodic testing required
ENEC	Annual	PVT is required for ENEC licence.
SEMKO, BG and TICK-mark	Recommended *) at least once a year. **) at least once every two years The 5 lowest and 5 highest capacitance values of each construction	For S-, BG- and TICK-mark PVT is not mandatory but it is recommended to demonstrate ongoing compliance with EU Directives. For each basic type certified, the following tests according to the product standard is required/recommended: <ul style="list-style-type: none"> • Dielectric strength test between terminals and container • Destruction test (on all approved series *) • All remaining applicable tests acc. to the standard **)

Intertek certification offices can advise on any aspect of PVT and can provide the testing service if required.

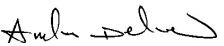
5.0 Surveillance testing by the Certification Body

If required, samples are selected during the factory inspection and the manufacturer should send these to the address provided. If samples are required but not available at the time of the inspection, the manufacturer should send these as soon as they become available. If there is no stock or production, the manufacturer should advise the certification body that samples will not be provided due to no production.

The certification body will arrange for the required testing to be completed. This will be charged to the manufacturer or Licence holder. A report of the testing will be provided.

Certification Mark	Surveillance testing requirements
SEMKO, BG and TICK-mark	Regular selection of samples is not required. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected
ENEC	Samples for product surveillance are selected by the inspector at the time of factory inspection, to be sent to Intertek.

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Document History				
Revision No.	Date	Changes	Name & Title	
			Author	Approving Official
1	11/02/2015	Original issue	Torbjörn Andersson / R W Hayward	

End of Document

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