



CO-ORDINATION OF NOTIFIED BODIES  
PPE-Directive 89/686/EEC + amendments

CNB/P/ 08.033  
Revision 01  
Language: E

RECOMMENDATION FOR USE

Number of pages: 1	Date: 11.11.2015	Approval by :	Approved on :
Origin : VG8 – Force Technology		<input checked="" type="checkbox"/> Vertical Group <input checked="" type="checkbox"/> Horizontal Committee <input checked="" type="checkbox"/> Standing Committee	28.07.2016 09.01.2017 (date)
Question related to: Directive 89/686/EEC	EN/prEN: ISO 12402-9:2006+A1:2011	Other:	
Clause: EN ISO 12402-9:2006, clause 5.1, EN ISO 12402-9:2006+A1:2011, clause 5.5.1			
Key words: Order of testing: Temperature cycle test and rotating shock bin test			
Question: In the standard EN ISO 12402-9:2006, clause 5.1, in the last sentence the following is stated "All tests according to 5.5 shall be carried out after submitting the samples to the temperature cycling test (see 5.5.3) and the rotating shock bin test (see 5.5.2). In the amendment EN ISO 12402-9:2006+A1:2011 clause 5.5.1, the above-mentioned sentence was deleted and Table 1 and Table 2 were added. What is the correct order for testing?			
Solution: The temperature cycle test shall always be performed first, then the rotating shock bin test. The two tests shall be performed prior to all other tests. The reason is that a potentially brake down of a material/component may not show if the rotating shock bin test is performed prior to the temperature cycle test. If a material/component becomes e.g. brittle due to the temperature cycle test, then the material/component will most likely brake/crack if it is subjected to the rotating shock bin test afterwards. If the rotating shock bin test is performed first, then failures of this kind will not be detected or be very hard to detect. In EN ISO 12402-9:2006, clause 5.1 mentions the temperature cycle first and then the rotating bin test even though the test clause for rotating shock bin test was 5.5.2 and the clause for temperature cycle was 5.5.3. This was because it was part of the requirement to carry out the test in this order. Unfortunately this has been lost with the introduction of Table 1 and Table 2 in ISO 12402-9:2006+A1:2011.			
Sent to: <input checked="" type="checkbox"/> members of the VG <input type="checkbox"/> other(s) VG <input checked="" type="checkbox"/> HC (2) <input type="checkbox"/> TC (3) <input type="checkbox"/> SC (4) <input type="checkbox"/> other (5)			
(5)			

(1) Essential safety requirement  
(2) HC = horizontal committee

(3) N° of CEN/TC (Secretary & Chairman)  
(4) EEC Standing Committee 89/392

(5) To be specified