Guideline

7/28

CLAP

FORM N°292

Version: 3

| Directive | 97/23/EC | Keywords : | Material | Quantitative requirement |
|---|---|-----------------|--------------------------|---|
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| | Direct | ive references: | Annex I § 7.5 - 97/23 EC | |
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| Adopted by WPG: 20/03/2014 Adopted by CLAP: 20/03/2014 | | | | |
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| Subject: | ESR on material –Bending rupture for materials with low thickness | | | |
| How to apply Annex I, section 7.5 on the bending rupture energy measured on an ISO V test piece | | | | |
| Question: How to apply Annex I, section 7.5 on the bending rupture energy for base materials whose, due to its thickness, the collection of | | | | |
| | mm is not poss | ible? | | |
| Answer: The value of 27 Joules required on Annex 1, section 7.5, means the use of test piece of | | | | ans the use of test piece of section 10 |
| | mm x 10 mm and an impact test KV according EN ISO 148-1:2010, Metallic materials – Charpy pendulum impact test – Part 1: Test method. | | | |
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| | When a standard size test piece of 10mm x10 mm cannot be obtained, it is recommended to use a sub-sized specimen with a cross section of 7,5mm (7,5mm x 10mm) or 5mm (5mmx10mm) and | | | |
| | to adjust the value of impact test (see EN 13445-2 and EN 13480-2). | | | |
| | When a sub-sized specimen (5mmx10mm) cannot be obtained due to the dimensions of the | | | |
| | material, the verification of the specified 27 Joules is not relevant but the properties of the material are still to be guaranteed by the material manufacturer. | | | |
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| | See also Guidelines 7/17 (CLAP 185) and 7/13 (CLAP 220). | | | |
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