

Directive 2014/68/EU**Adopted by WGP :** 08/01/2016**Adopted by CLAP :** 08/01/2016**Directive References:** Annex I § 3.2.1

Annex I § 4.3

Subject: ESR on materials - Additional mechanical or non-destructive testing**Question:**

Based on data contained in a certificate issued by a material manufacturer (EN 10204:2004 3.1-certificate) material has been supplied in accordance with a material specification.

May a pressure equipment manufacturer perform additional mechanical or non-destructive testing or have them performed to affirm that the material meets all the requirements specified by the equipment manufacturer?

Answer:

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No, unless in exceptional circumstances, as outlined below:

The extent of additional testing shall be specified by the equipment manufacturer and it should be at least equivalent to the tests specified in the harmonized standard, if available, for a similar type of material and representative of the entire batch of the material used for the equipment.

The testing shall be supplementary to the original certificate. It shall not have the purpose to "improve" properties already included in the certificate. It does not justify an increase in the allowable design stress over the values of the base material specification.

The equipment manufacturer takes full responsibility for all additional tests being carried out.

The certificate issued by the material manufacturer who has a certified quality assurance system is presumed to certify conformity with the requirements but only to the extent that is specified in the inspection certificate. No new material certificate shall be issued for the additional tests carried out by the equipment manufacturer. However the results shall form part of the records in the technical documentation.

This does not apply to EN 10204:2004 3.2-certification where the specified additional tests shall be carried out by the material manufacturer.

Reason: In certain circumstances the equipment manufacturer may require properties of the material that are not normally affirmed by the material manufacturer. If material with these required additional properties is not available, the equipment manufacturer must take appropriate measures to ensure that his equipment complies by undertaking additional tests.

Note 1: The pressure equipment manufacturer shall compile a hazard analysis for the pressure equipment, on the basis of which the essential safety requirements for the equipment are determined, including the required materials properties. The results of the analysis have to be taken into account in design and manufacture of the equipment, as well as in determining possible additional material testing.

Guideline

G-29

CLAP

FORM N°X164

Version : 1

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Note 2: A particular material appraisal (PMA) shall be drawn up for a pressure equipment material if the material is not in accordance with a harmonized standard or the European approval of materials (EAM). In that case, the additional material testing shall be made in accordance with the PMA document PE-03-28, appendix 2. The document is available on the EU Commission's PED website.

Note 3: The testing laboratory and its personnel performing additional material tests shall be suitably qualified for the tests in question, and the equipment used for the tests shall be calibrated. Accreditation is the most common way to demonstrate the testing laboratory's qualification.

See also PED Guideline G-24 (CLAP X159), Guideline G-30 (CLAP X165) and Guideline I-13 (CLAP X192).