



**Committee of Experts on the Transport of Dangerous Goods
and on the Globally Harmonized System of Classification
and Labelling of Chemicals****Sub-Committee of Experts on the Transport of Dangerous Goods****Forty-sixth session**

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Item 7 of the provisional agenda

New proposals for amendments to the Model Regulations on the Transport of Dangerous Goods**Proposal for changing 6.2.1.1.9 - Additional requirements for
the construction of pressure receptacles for acetylene****Submitted by the European Cylinder Makers Association (ECMA)¹****Background**

1. For acetylene cylinders the following requirements are given in Chapter 6.2 of the Model Regulations on the Transport of Dangerous Goods:

"6.2.1.1.9 Additional requirements for the construction of pressure receptacles for acetylene

Pressure receptacles for UN 1001 acetylene dissolved, and UN 3374 acetylene, solvent free, shall be filled with a porous material, uniformly distributed, of a type that conforms to the requirements and testing specified by the competent authority and which:

- (a) Is compatible with the pressure receptacle and does not form harmful or dangerous compounds either with acetylene or with the solvent in case of UN 1001; and
- (b) Is capable of preventing the spread of decomposition of the acetylene in the material.

¹ In accordance with the programme of work of the Sub-Committee for 2013-2014 approved by the Committee at its sixth session (refer to ST/SG/AC.10/C.3/84, para. 86 and ST/SG/AC.10/40, para. 14).

In the case of UN 1001, the solvent shall be compatible with the pressure receptacles."

2. In parallel to 6.2.1.1.9 standards with requirements and tests for the porous material are referenced in 6.2.2.1.3 in the tables listing standards for the design, construction and initial inspection and test (i.e. ISO 3807-1 and ISO 3807-2). These standards which must be applied mandatorily include type testing of the porous material. Therefore, there is no need for a competent authority to specify requirements and testing for the porous material contained in acetylene cylinders.

Proposal

3. Change the wording in 6.2.1.1.9 as follows (text to be added is underlined, text to be deleted is crossed out):

"6.2.1.1.9 Additional requirements for the construction of pressure receptacles for acetylene

Pressure receptacles for UN 1001 acetylene dissolved, and UN 3374 acetylene, solvent free, shall be filled with a porous material, uniformly distributed, of a type that conforms to the requirements and testing specified by the standards listed in 6.2.2.1.3 ~~by the competent authority~~ and which:

- (a) Is compatible with the pressure receptacle and does not form harmful or dangerous compounds either with acetylene or with the solvent in case of UN 1001; and
- (b) Is capable of preventing the spread of decomposition of the acetylene in the material.

In the case of UN 1001, the solvent shall be compatible with the pressure receptacles."
