
**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
(Twenty-fourth session, 3-10 December 2003,
agenda item 2)

TRANSPORT OF GASES

Comments on ST/SG/AC.10/C.3/2003/51 (FEA)
Alternatives to the water bath test

Transmitted by the Expert from Austria

1. The expert from Austria concurs with the FEA proposal to separate requirements for UN 1950 aerosols from requirements for UN 2037 small receptacles containing gas (gas cartridges).
2. At the same time the expert from Austria is of the opinion that when the question of alternative testing is considered for aerosols this should also be done for small receptacles containing gas.
3. Manufacturers producing small gas cartridges containing non-toxic, non-flammable gas, such as CO₂, informed us that the water bath test appears to be outdated for these receptacles as well and that other methods giving equally sensitive leak detection should be admitted. Basically the following procedure is applied at present for these receptacles:
 - Evaluation of weight before and after the filling process (for smaller cylinders only the filling weight is evaluated).
 - Pressure test by storing the cylinder at 65 °C for a certain period of time, a pressure of approx. 250 bar is reached for cylinders with a filling factor of 0.75).
 - Evaluation of weight, comparison with weight according to step one.
4. It is therefore proposed to revise the whole section 6.2.4 and for 6.2.4.1 to take the existing situation for certain gas cartridges into account.
