



ISO/TC 197
Hydrogen technologies

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Report on activities of ISO/TC 220 “Cryogenic vessels”

COMMENTARIES

To be considered during the next meeting of ISO/TC 197



1 Chairmanship, Scope and Meetings

Chairman and Secretary

Chairman: Hervé Barthélémy (Air Liquide)

Secretary: Laurie Jardel (AFNOR)

Scope

Standardization in the field of insulated vessels (vacuum or non-vacuum) for the storage and the transport of refrigerated liquefied gases of class 2 of “Recommendations on the Transport of dangerous Goods – Model regulations – of the United Nations”, in particular concerning the design of the vessels and their safety accessories, gas/materials compatibility, insulation performance, the operational requirements of the equipment and accessories.

Last & next meetings

The last plenary meeting of ISO/TC 220 took place in Houston (USA) on June 14th, 2017.

The next plenary meeting of ISO/TC 220 will take place in Saint Denis (France) on June 8th, 2018.

2 Structure

Working Groups

- WG 1 “Design and construction”
- WG 2 “Operational requirements”
- WG 3 “Supporting standards”

Internal liaisons

- ISO/TC 11 “Boilure and pressure vessels”
- ISO/TC 22/SC 41 “Specific aspects for gaseous fuels”
- ISO/TC 67/SC 9 “Liquefied natural gas installations and equipment”
- ISO/TC 185 “Safety devices for protection against excessive pressure”
- ISO/TC 197 “Hydrogen technologies”
- ISO/PC 252 “Project committee: Natural gas fuelling stations for vehicles”
- CEN/TC 54 “Unfired pressure vessels”

External liaisons

- European Industrial Gases Association (EIGA)
- Natural Gas Vehicle Knowledge base
- Middle East Gases Association (MEGA)

3 Work programme

Items under study:

- ISO/WD 21014 “Cryogenic vessels – Cryogenic insulation performance”
- ISO 21013-2/A1 “Cryogenic vessels -- Pressure-relief accessories for cryogenic service -- Part 2: Non-reclosable pressure-relief devices – Amendment 1”
- ISO/WD 21011 “Cryogenic vessels – Valves for cryogenic service”
- ISO/NP 22103 “Cryogenic vessels – Tank for natural gas on-board storage – Operational requirements for automotive vehicles”
- ISO/CD 20421-1 “Cryogenic vessels – Large transportable vacuum insulated vessels – Part 1: Design, fabrication inspection and testing”
- ISO/FDIS 21012 “Cryogenic vessels – Hoses”
- ISO/FDIS 21029-1 “Cryogenic vessels – Transportable vacuum insulated vessels of not more than 1000 litres volume – Part 1: Design, fabrication, inspection and tests”
- ISO/FDIS 21028-2 “Cryogenic vessels – Toughness requirements for materials at cryogenic temperature – Part 2: Temperatures between -80 degrees C and -20 degrees C”

Standards under publication:

- ISO 21010 “Cryogenic vessels – Gas/materials compatibility”

4 Comments

A closer collaboration will probably be needed is the liquid hydrogen technologies are developed for the refueling of hydrogen stations.