



ISO/TC 197
Hydrogen technologies

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« 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: Arnaud Roussel (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 Saint Denis (France) on June 8th, 2018.

The next plenary meeting of ISO/TC 220 will take place in Saint Denis (France) during the week of June 3rd, 2019.

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/AWI 21011 "Cryogenic vessels – Valves for cryogenic service" (VA/ISO lead)
- ISO/AWI 22103 "Cryogenic vessels – Tank for natural gas on-board storage – Operational requirements for automotive vehicles"
- ISO/AWI 21013-1 "Cryogenic vessels – Pressure-relief accessories for cryogenic service – Part 1: Reclosable pressure-relief valves"
- ISO/AWI 21009-1 "Cryogenic vessels – Static vacuum-insulated vessels – Part 1: Design, fabrication, inspection and tests"
- ISO 12991 "Liquefied natural gas (LNG) – Tanks for on-board storage as a fuel for automotive vehicles"
- ISO/DIS 21014 "Cryogenic vessels – Cryogenic insulation performance"



- ISO 21029-1/DAmD 1 “Cryogenic vessels – Transportable vacuum insulated vessels of not more than 1000 litres volume – Part 1: Design, fabrication, inspection and tests – Amendment 1”
- ISO 21013-4/DAmD 1 “Cryogenic vessels – Pilot operated pressure relief devices – Part 4: Pressure-relief accessories for cryogenic service – Amendment 1”
- ISO/FDIS 20421-1 “Cryogenic vessels – Large transportable vacuum insulated vessels – Part 1: Design, fabrication inspection and testing”

Standards published since the last plenary meeting of ISO/TC 197:

- ISO 21010 “Cryogenic vessels – Gas/materials compatibility”
- ISO 21028-2 “Cryogenic vessels – Toughness requirements for materials at cryogenic temperature – Part 2: Temperatures between -80 degrees C and -20 degrees C” (VA/ISO lead)
- ISO 21012 “Cryogenic vessels – Hoses” (VA/ISO lead)
- ISO 21029-1 “Cryogenic vessels – Transportable vacuum insulated vessels of not more than 1000 litres volume – Part 1: Design, fabrication, inspection and tests”
- ISO 21013-2/Amd 1 “Cryogenic vessels -- Pressure-relief accessories for cryogenic service -- Part 2: Non-reclosable pressure-relief devices – Amendment 1”

4 Comments

A closer collaboration will probably be needed if the liquid hydrogen technologies are developed for the refueling of hydrogen stations, considering in particular, the progress made with PRESLHY.