



ISO/TC 197  
Hydrogen technologies

Email of secretary: [jonathan.lafontaine@bnq.qc.ca](mailto:jonathan.lafontaine@bnq.qc.ca)  
Secretariat: SCC (Canada)

**CEN TC 268 Liaison report**

Document type: Other committee document

Date of document: 2019-12-05

Expected action: INFO

Background: Please find attached the activity report for CEN TC 268 to be presented in Grenoble.

Committee URL: <https://isotc.iso.org/livelink/livelink/open/tc197>



European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

« Hydrogen technologies »

ISO/TC 197

Date:

Doc. Number:

**Assistant:**

Christine FAURE  
Direct line: +33 (0)1 40 62 56 93  
christine.faure@airliquide.com

**Your contact:**

Hervé BARTHELEMY  
Direct line: +33 (0)1 40 62 55 01  
herve.barthelemy@airliquide.com

## Report on activities of CEN/TC 268 “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, as defined in Class 2 of “Recommendations on the Transport of dangerous Goods – Model regulation”, 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. The one-off preparation of standards for hydrogen technologies strictly meeting the European mandate on the draft Directive deployment of alternative fuels infrastructure.

### Last meeting

The last plenary meeting of CEN/TC 268 took place in Saint Denis (France) on June 3<sup>rd</sup>, 2019.

The next plenary meeting of CEN/TC 268 will be organized in June 2020 (date & place to be fixed later).

## 2 Structure

### Working Groups

-WG 2 “Design, compatibility, insulation, accessories”

-WG 3 “Operational requirements”

**-WG 5 “Specific hydrogen technologies applications”**

-WG 6 “Specific helium technologies applications”

### Internal liaisons

-CEN/TC 19 “Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin”

-CEN/TC 54 “Unfired pressure vessels”

-CEN/TC 69 “Industrial valves”

-CEN/TC 282 “Installations and equipment for LNG”

-CEN/TC 342 “Metal hoses, hose assemblies, bellows and expansion joints”

### External liaisons

-European Industrial Gases Association (EIGA)

-ISO/TC 197 “Hydrogen technologies”

-ISO/TC 220 “Cryogenic vessels”

### 3 Work programme/Items of Interest

#### Items under study:

See also WI under Vienna Agreement in the ISO/TC 220 Liaison report.

-Revision of EN 17127:2018 “Outdoor hydrogen refueling points dispensing gaseous hydrogen and incorporating filling protocols”

The standard was published in 2018. When publishing the standard, it was agreed to open immediately a revision because some points needed to be clarified:

- Consideration of the last version of ISO 19880-1 “Gaseous hydrogen – Fuelling station – Part 1: General requirements”
- Pressure limits, temperature limits

-Revision of EN 17124:2018 “Hydrogen fuel – Product specification and quality assurance – Proton exchange membrane (PEM) fuel cell applications for road vehicles”

The standard was published in 2018.

.EN 17124 is based on:

- ISO 19880-8 “Gaseous hydrogen – Fuelling stations – Part 8: Fuel quality control”, under publication.
- ISO 14684 “Hydrogen fuel quality – Product specification”

When publishing the standard, it was agreed to open immediately a revision. This revision will include the preparation of an Annex presenting an example of risk assessment, the clarification in the main text of the legal requirements and the consideration of the last version of ISO 19880-8.

-FprEN ISO 17268 “Gaseous hydrogen land vehicle refueling connection devices” (VA/ISO lead)

The FDIS ballot and the Formal Vote will end on 2019-12-23.

-WI “Helium cryostats - Protection against excessive pressure” – The NWIP was approved in October 2018.

The WG made a lot of progress to clarify the requirements in the draft. The prEN enquiry shall be launched by mid-March 2020.

### 4 Comments

CEN/TC 268 has prepared standards applying to liquid hydrogen (especially in WG 1, 2, 3).

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.