



ISO/TC 197  
Hydrogen technologies

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European Committee for Standardization  
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« Hydrogen technologies »

ISO/TC 197

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## 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 November 17<sup>th</sup>, 2017.

## 2 Structure

### Working Groups

- WG 1 “Design”
- WG 2 “Compatibility, insulation and accessories”
- WG 3 “Operational requirements”
- WG 4 “Fundamental requirements” – During the plenary meeting of 2017-17-11, it was decided to disband WG 4 and to allocate the standards developed by WG 4 to WG 1
- WG 5 “Specific hydrogen technologies applications”
- WG 6 “Specific helium technologies applications” – New WG

### Internal liaisons

- 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 220 “Cryogenic vessels”
- ISO/TC 197 “Hydrogen technologies”

### 3 Work programme

#### Items under study:

- prEN ISO 21012 “Cryogenic vessels – Hoses” (VA/ISO lead)
- prEN 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)
- prEN 17127 “Outdoor hydrogen refueling points dispensing gaseous hydrogen and incorporating filling protocols”
- prEN 17124 “Hydrogen fuel – Product specification and quality assurance – Proton exchange membrane (PEM) fuel cell applications for road vehicles”
- prEN ISO 17268 “Gaseous hydrogen land vehicle refueling connection devices” (VA/ISO lead)
- WI00268068 “Liquid helium cryostats “Protection against overpressure”

### 4 Items of interest for ISO/TC 197

-prEN 17127 “Outdoor hydrogen refueling points dispensing gaseous hydrogen and incorporating filling protocols”

The ballot for the modification of the scope of prEN 17127 ended on 2017-10-09. The decision was approved but the French mirror committee raised a point of concern that needs to be discussed at CEN/TC 268/WG 5 level:

Comments on European foreword: “ *and applies to vehicles covered by GTR13.*” -----

Proposed change: “ *and applies to vehicles covered by EC 79/2009 or UNECE R134.*”

Comments on scope: “ *... road vehicles (e.g. Fuel Cell Electric Vehicles) that comply with*

*GTR13*”----- Proposed change: “ *... road vehicles (e.g. Fuel Cell Electric Vehicles) that comply with EC 79/2009 or UNECE R134.*”

-prEN 17124 “Hydrogen fuel – Product specification and quality assurance – Proton exchange membrane (PEM) fuel cell applications for road vehicles”

The ballot to skip the Formal Vote of prEN ISO 17124 ended on 2017-11-19. The decision was approved and the draft standard will be published soon.

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

Following the systematic review of ISO 17268:2012, it was decided that the standard needs to be revised. As the standard was adopted by CEN/TC 268 following UAP, the standard has been automatically registered under CEN/TC 268 work programme.

### 5 Other information

#### Adoption of ISO/TC 220 standards

The following ISO standards are considered for adoption by CEN/TC 268:

ISO/TC 220 standards		CEN/TC 268 standards	
ISO 23208:2005	Cryogenic vessels -- Cleanliness for cryogenic service	EN 12300:1998	Cryogenic vessels - Cleanliness for cryogenic service
ISO 24490:2005	Cryogenic vessels -- Pumps for cryogenic service	EN 13275:2000	Cryogenic vessels - Pumps for cryogenic service
ISO 21011:2008	Cryogenic vessels – Valves for cryogenic service	EN 1626:2008	Cryogenic vessels – Valves for cryogenic service

CEN/TC 268 shall launch the ballots soon.



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### **Creation of a Task Group**

Considering the need to correct Annexes ZA in published standards and noting the need to draft Annex ZA for future development of standards, CEN/TC 268 agreed to create a Task Group under the responsibility of CEN/TC 268 committee leadership.