



ISO/TC 197
Hydrogen technologies

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Secretariat: SCC (Canada)

ISO FDIS 19882 Collated Comments

Document type: FDIS ballot

Date of document: 2018-08-24

Expected action: INFO

Background: Here are the comments that were received with the successful ISO/FDIS 19882 ballot.
See the vote results in document N 1020.

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

Template for comments and secretariat observations

Date:2018-08-17

Document:

Project:

MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
FR 1 001				ge		Show clearly requirements and acceptable results from the different test procedures in summary	
DE 002				ge	This topic is important for us. However mainly in a sense that when we use it, it should work. The technical details have to be discussed with the suppliers.	No changes	
FR 2 003			04.1	ed	Is it necessary to mention a paragraph of CGA S1.1 ? (Third paragraph of 4.1)	Delete this paragraph	
FR 3 004			04.4	ed	Durability test cycling is not recalled further in norm	design qualification testing chapter 7 is targeted. To be precised in wording.	
FR 4 005			04.4	ed		reference of the cycling test should be added	
FR 6 006			06.1	ed	Acceptable norms for compatibility (11114, SAE,ANSI ...) should be quoted after second paragraph	Move notes 1 and 2 at the bottom of 6.1	
FR 7 007			06.4	ed	No rework or repair should be allowed	Only replacement should be possible under specified conditions and procedure given by manufacturer	
FR 13 008			07.10.1	ed	previous requirements are already pointing the tested samples to this new test	remove	
FR 14 009			07.10.2	ge	Why applying a pressure equal to 2.5% of the nominal pressure is required?		
FR 15 010			07.10.3	ed	No need for intermediate sentence	In 1 min with H2, no bubbles or must be lower than 10 Ncc/h	
FR 16			07.11.3	ed	Clarify sentence, confusion risk, are test individual	Proposition to describe test sequences in a table	

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011					and in sequence.	(see R134 for exemple)	
FR 17 012			07.12.3	ed	Correct number pf tprd	nine instead of eight	
FR 18 013			07.13.2	ed	Which gas?	To be precised	
FR 8 014			07.2.3	ed		The document must be rewritten accordingly and clearly separate the requirements from the test description	
FR 9 015			07.3.2	ed		The (1) should be closer to the formula	
FR 10 016			07.4.2	ed	The d) is not clear enough on how to pressure cycle the device. (How many cycles per minute...rate of pressure increase etc.) The last sentence is restrictive. The choice should be left to the manufacturer	To be clarified	
FR 11 017			07.7.2	ed		The test could refer to an ISO test not an ASTM test	
FR 12 018			07.8	ed	Only for PRD containing components made of copper bases alloys. It is unclear whether the test shall be carried out on the PRD as a single device or on each individual components	Precise scope	
FR 20 019			09.2.3	ed	Container manufacturer quality manual should not be quoted in this norm	Remove reference to container manufacturer quality manual in this paragraph	
FR 5			5	ed	Norm should be modified not mentioning the	Delete the paragraphe	

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020					quality system or notified bodies, these should be included into reglementation and not into the norm. waiting for CASCO confirmity assessment		
FR 19 021			8	ed	Who is the inspector reporting to? How is he qualified?	To be precised	
FR 22 022			A6.2		Rework and repair	PRD shall not be allowed to be maintained.	
FR 21 023			Annex A A2 and A3		service life and design nominal pressure of the fuel container	is it relevant in this norm or should it be included in regulation or upper level norm concerning systems?	
JP 024 002		03.01 flow capacity		ed	There is a superfluous word:"<pressure relief device>."	Delete "<pressure relief device>"	
ISO/T C22/S C 41 025		1 - Scope		Te	<p>ISO/FDIS 19882 is a duplication of ISO 12619-10 related to the application for internal combustion engine road vehicles.</p> <p>We see that in the DIS 19882 the scope was limited <u>only to fuel cell vehicles</u>. Why the scope was changed to include also internal combustion engine land vehicles?</p> <p>ISO 12619-10 (under ISO/TC22 "Road vehicles"/SC41 "Specific aspects for gaseous fuels") is applicable to motor vehicle as specified in ISO 3833. Land vehicles is a category of vehicle that include road vehicles (ISO 3833), therefore we suggest specifying that road vehicles, as specified in ISO 3833, except for fuel cell vehicles, are out of scope of ISO/FDIS 19882.</p> <p>As you know, ISO 12619-10 clearly states, in the</p>	<p>Change from</p> <p><i>"The scope of this document is limited to thermally activated pressure relief devices installed on fuel containers used with fuel cell grade hydrogen according to SAE J2719 or ISO 14687 for fuel cell land vehicles, and Grade A or better hydrogen according to ISO 14687 for internal combustion engine land vehicles. This document also contains requirements for thermally activated pressure relief devices acceptable for use on-board light duty vehicles, heavy duty vehicles and industrial powered trucks such as forklifts and other material handling vehicles."</i></p> <p>To</p>	

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					<p>Scope, that the standard it is not applicable to fuel cell vehicles (that are covered by your standard). Please see the proposed change suggested.</p>	<p><i>"This document establishes minimum requirements for pressure relief devices intended for use on hydrogen fuelled vehicle fuel containers that comply with ISO 19881, IEC 62282-4-101, ANSI HGV 2, CSA B51 Part 2, EC79/EU406, SAE J2579, or the UN GTR No. 13 for fuel cell vehicles.</i></p> <p><i>The scope of this document is limited to thermally activated pressure relief devices installed on fuel containers used with fuel cell grade hydrogen according to SAE J2719 or ISO 14687 for fuel cell land vehicles and Grade A or better hydrogen according to ISO 14687 for internal combustion engine land vehicles (excluding road vehicle as specified in ISO 3833, except for fuel cell vehicles). This document also contains requirements for thermally activated pressure relief devices acceptable for use on-board light duty vehicles, heavy duty vehicles and industrial powered trucks such as forklifts and other material handling vehicles.</i></p> <p><i>Pressure relief devices designed to comply with this document are intended to be used with high quality hydrogen fuel such as fuel complying with SAE J2719 or ISO 14687 Type 1 Grade D.</i></p> <p><i>Pressure relief devices can be of any design or manufacturing method that meets the requirements of this document.</i></p> <p><i>This document does not apply to reseating, resealing, or pressure activated devices.</i></p> <p><i>Documents which apply to hydrogen fuel vehicles and hydrogen fuel subsystems include IEC 62282- 4- 101, SAE</i></p>	

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						<i>J2578 and SAE J2579."</i>	
JP 026 001		2 Normative references		ed	The title of ISO 19881 should be "Land Vehicle Fuel <u>Containers</u> ", not "Land Vehicle Fuel <u>Tanks</u> ."	"ISO 19881, Gaseous Hydrogen – Land Vehicle Fuel <u>Containers</u> "	

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