



ISO/TC 197
Hydrogen technologies

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« Hydrogen technologies »

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Report on activities of ISO/TC 58/SC 3 “Cylinder design”

COMMENTARIES

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

1 Chairmanship and Meetings

Chairman and Secretary

Chairman: Simon Davies (Arrowhead)

Secretary: Stephen Read (BSI)

Last & next meetings

The last plenary meeting of ISO/TC 58/SC 3 took place in Paris (France) during the week beginning October 24th/25th, 2018.

The next plenary meeting of ISO/TC 58/SC 3 will take place in Hangzhou (China) during the week of October 21st, 2019.

2 Structure

Working Groups

- WG 17 "Compressed natural gas cylinders for road vehicles"
- WG 23 "Welded steel pressure drums"
- WG 24 "Factors of safety for composite cylinders"
- WG 26 "Refillable seamless steel gas cylinders (except stainless steel)"
- WG 27 "Composite cylinders"
- WG 28 "Seamless steel tubes"
- WG 29 "revision of ISO 11118:1999"
- WG 32 "Refillable composite reinforced tubes of water capacity between 150l and 3000l – Design, construction and testing"
- WG 33 "Refillable seamless stainless steel gas cylinders"
- WG 35 "Permanently mounted composite tubes"
- WG 36 "Service testing for cylinders and tubes"
- WG 37 "Refillable welded steel cylinders"

Internal liaisons

- ISO/TC 17/SC 10 "Steel for pressure purposes"
- ISO/TC 21/SC 2 "Manually transportable fire extinguishers"
- ISO/TC 21/SC 5 "Fixed firefighting systems using water"
- ISO/TC 21/SC 8 "Gaseous media and firefighting systems using gas"
- ISO/TC 22 "Road vehicles"
- ISO/TC 22/SC 41 "Specific aspects for gaseous fuels"
- ISO/TC 197 "Hydrogen technologies"

External liaisons

- European LPG Association (AEGPL)
- European Industrial Gases Association (EIGA)
- European Cylinders Makers Association (ECMA)
- Natural Gas Vehicle Knowledge base
- Subcommittee of Experts on the Transport of Dangerous Goods

3 Work programme

Potential work item for future:

- ISO TR 13086-5 "Gas cylinders – Guidance for design of composite cylinders – Part 5: Impact testing of composite cylinders"

Items under study:

- Amendment to ISO 11439 “Gas cylinders – High pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles”
- ISO/WD 9809-4 “Gas cylinders – Refillable seamless steel gas cylinders – Design, construction and testing – Part 4: Stainless steel cylinders with an Rm value of less than 1100 MPa”
- ISO/WD 11119-1 “Gas cylinders – Refillable composite gas cylinders and tubes – Design, construction and testing – Part 1: Hoop wrapped fibre reinforced composite gas cylinders and tubes up to 450 l”
- ISO/WD 11119-2 “Gas cylinders – Refillable composite gas cylinders and tubes – Design, construction and testing – Part 2: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with load-sharing metal liners”
- ISO/WD 11119-3 “Gas cylinders – Refillable composite gas cylinders and tubes – Design, construction and testing – Part 3: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with non-load-sharing metallic or non-metallic liners”
- ISO/NP TR 13086-4 “Gas cylinders – Guidance for design of composite cylinders – Part 4: Cyclic fatigue of fibres and liners”
- ISO/DIS 9809-1 “Gas cylinders – Refillable seamless steel gas cylinders – Design, construction and testing – Part 1: Quenched and tempered steel cylinders with tensile strength less than 1100 MPa”
- ISO/DIS 9809-2 “Gas cylinders – Refillable seamless steel gas cylinders – Design, construction and testing – Part 2: Quenched and tempered steel cylinders with tensile strength greater than or equal to 1100 MPa”
- ISO/DIS 9809-3 “Gas cylinders – Refillable seamless steel gas cylinders – Design, construction and testing – Part 3: Normalized steel cylinders”
- ISO 11118/DAmD1 “Gas cylinders – Non-refillable metallic gas cylinders – Specification and test methods – Amendment 1”
- ISO/FDIS 17519.2 “Gas cylinders – Refillable permanently mounted composite tubes for transportation”
- ISO/DIS 11513 “Gas cylinders – Refillable welded steel cylinders containing materials for sub-atmospheric gas packaging (excluding acetylene) – Design, construction, testing, use and periodic inspection”

Standards under publication:

- ISO 21172-1/DAmD 1 “Gas cylinders – Welded steel pressure drums up to 3000 litre capacity for the transport of gases – Design and construction – Part 1: Capacities up to 1000 litre – Amendment 1”

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

- ISO/TR 13086-2 “Gas cylinders – Guidance for design of composite cylinders – Part 2: Bonfire test issues”
- ISO/TR 13086-3 “Gas cylinders – Guidance for design of composite cylinders – Part 3: Calculation of stress ratios”
- ISO 11515/Amd 1 “Gas cylinders – Refillable composite reinforced tubes of water capacity between 450l and 3000l – Design, construction and testing – Amendment 1”

4 Comments

A lot of work on composite cylinders/tubes registered in the ISO/TC 58/SC 3 work programme.