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**Economic Commission for Europe****Inland Transport Committee**

25 October 2021

**Working Party on the Transport of Perishable Foodstuffs**

English

**Seventy-seventh session**

Geneva, 26-29 October 2021

Item 3 (c) of the provisional agenda

**Activities of other international organizations dealing****with issues of interest to the Working Party:****Standardization organizations**

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**Report of the CEN activities (CEN/TC 413 WG 1&2 & CEN/TC 423 PC "Insulated means of transport for temperature sensitive goods —Equipment")****Transmitted by the Chair of CEN committees TC 413 and TC 423****1. CEN/TC 413 Working Group 2**

1. Experts from Belgium, France, Italy, Ireland, Netherland, United Kingdom and Germany with informal participation of experts from other European Nations have had several virtual meetings and working group meetings during the last 12 months.

2. EN 16440 – 1:2015-01 Testing methodologies of cooling equipment for insulated means of transport — Part 1: Mechanical refrigeration devices with forced air circulation evaporator with or without heating devices. The final version was published in January 2015.

3. Following additional parts will be still under consideration:

- Part 2: Eutectic Systems: The current working draft is still under consideration with the view of sending the final version to a second CEN enquiry after the revision. Especially, the test provisions for cooling capacities and consumption for new equipment with eutectic systems as well equipment in daily operation sequences were adopted and revised.

Draft and project will be sent for a new ballot after the re-activation to finalize the draft version of prEN 16440-2 and CEN enquiry.

- Part 3: Transport refrigeration systems with dry ice: *This project is stopped.*
- Part 4: Controlled gas refrigeration systems with direct evaporation: *This project is stopped.*
- Part 5: Controlled gas refrigeration systems with indirect evaporation: *This project is stopped.*
- An additional part 6: Special requirements on multitemp systems: *Is scheduled as a further project.*

**2. CEN/TC 413 Working Group 1**

4. Experts from Belgium, France, Finland, Italy, Ireland, Netherland, United Kingdom and Germany, supported by Latvia and Sweden with informal participation of experts from other European Nations have had several virtual meetings and working group meetings during the year.

5. The scope of the project committee will be a standard with the title: Insulated means of transport for temperature sensitive goods – requirements and testing. The standard applies to thermally insulated means of transport used for temperature sensitive goods in order to limit the heat exchange due to external conditions. If certain temperatures have to be maintained, they could be additionally provided with a cooling and/or heating source. The current framework is taking into account inside temperatures between – 30°C and + 25°C and ambient conditions between -30°C and +43°C.

6. The standard is projected with different parts as:

- prEN 17066 Part 1: Container - Insulated means of transport for temperature sensitive goods – Requirements and testing to define the terminology, the specific requirements, test provisions, dimensioning of insulated bodies including evaluation of k value. *Final version was published on October 2019.*
- Part 2: Equipment - Combination of insulated bodies and their cooling and/or heating devices including verification of cooling and heating capacities for long distance transport as well distribution. *Further technical discussions were needed about design margins for distribution and further general requirements.*
- Part 3: Small containers for multiple use with an internal volume not more than 2 m<sup>3</sup>. *The special combination of smaller insulated bodies and their cooling and/or heating devices including verification of cooling and heating capacities have reached a consensus at the working group which would soon be sent for a CEN inquiry.*
- An additional part: Special requirements on multitemp systems: *Is scheduled as a further project.*

7. A new working group has started working on a new EN standard titled: Thermal Road Vehicles - Safety Standard for temperature-controlled systems using flammable refrigerants for the transport of goods. Several virtual meetings had taken place and the next ones would be held on 2 November 2021 and 23 November 2021, respectively, with liaisons to other related CEN committees.

### 3. Revision of EN 12830

8. EN 12830:1999 – Temperature recorders for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and ice cream – Tests, performance, suitability: Revision took into account current technical developments and requirements. The scope of the revised standard has an increased temperature range from – 80 to + 85°C for temperature sensitive goods in the cold chain. *Final version was published on October 2018.*

### 4. Revision of EN 13485 and EN 13486

- Revision of the EN 13485:2002 - Thermometers for measuring the air and product temperature for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and ice cream - Tests, performance, suitability; and
- Revision of the EN 13486:2002 - Temperature recorders and thermometers for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and ice cream - Periodic verification to adopt modifications and actual technical development of the published EN 12830:2018-10 - Temperature recorders **for the transport, storage and distribution of temperature sensitive goods** – Tests, performance, suitability.

9. The actual project was started on 4 October 2018. Several virtual meetings of the CEN TC 423 were held with experts from Germany, France, Spain and Portugal.

10. The new work item proposal for the revision of both standards has started at CEN TC 423 Working Group 1 in 2021 with the objective of finalizing the draft for official CEN enquiry. Next virtual meetings were scheduled for 4 November 2021 and 29 November 2021.

**5. Other standardization activities of interest to WP.11**

11. Information on Korean projects in ISO/TC 122 "Packaging". Two Korean projects within ISO/TC 122/WG 16 "Temperature controlled product packaging", Convenorship: Korea are published:

- ISO 22982-1:2021-03: Temperature controlled transport packaging - Part 1: General requirements; and
  - ISO 22982-2:2021-03: Transport packaging - Temperature-controlled transport packages for parcel shipping - Part 2: General specifications of testing.
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