

BUSINESS PLAN

CEN/TC 413

INSULATED MEANS OF TRANSPORT FOR TEMPERATURE SENSITIVE GOODS WITH OR WITHOUT COOLING AND/OR HEATING DEVICE

EXECUTIVE SUMMARY

Business Environment

Aproximately 15 % of all transports are temperature controlled transports and the number of temperature sensitive goods that needs to be temperature controlled transported is continually increasing.

So the transport of these products is a key factor regarding the compliance with the cold chain. As a result, the number of temperature controlled vehicles increases. About 87.000 new temperature controlled vehicles coming onto the Euopean market every year.

Within CEN/TC 413 are several parties involved:

- industry
- supplier
- user
- consumer
- governmental organizations
- non governmental organizations

Benefits

The availability of the standards offers the following benefits:

- assurance of the safety, quality and efficiency of the transported temperature sensitive goods, i.e. compliance with the cold chain
- standards to be used to perform the desired technical level of commercial interoperability
- less impact on the evironment

Priorities

Standardization in the field of testing methodologies, classification and dimensioning for equipment and devices for insulated means of transport for temperature sensitive goods.

1 BUSINESS ENVIRONMENT OF THE CEN/TC

1.1 Description of the Business Environment

The following political, economic, technical, regulatory, legal, societal and/or international dynamics describe the business environment of the industry sector, products, materials, disciplines or practices related to the scope of this CEN/TC, and they may significantly influence how the relevant standards development processes are conducted and the content of the resulting standards:

Political and social dynamics

- assurance of the safety and quality of temperature sensitive goods regarding a high level of health safety
- low impact on the environment

Economical dynamics

- high (15 % of all transports) and increasing number of temperature sensitive goods that needs to be temperature controlled transported

Technical factor

- improvement of technical thermal resistance
- refrigerants with low impact on the environment
- improvement of energy efficiency
- reduction of noise

Legal dynamics

- Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP)
- Regulation (EC) No 178/2002 on general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety
- Regulation (EC) No 37/2005 on the monitoring of temperatures in the means of transport, warehousing and storage of quickfrozen foodstuffs intended for human consumption
- Regulation (EC) No 517/2014 on fluorinated greenhouse gases

1.2 Quantitative Indicators of the Business Environment

The following list of quantitative indicators describes the business environment in order to provide adequate information to support actions of the CEN /TC:

The European food industry is one of the most important economic sectors in Europe. Insulated vehicles and/or vehicles with cooling and rail wagons for the transport of temperature sensitive goods are a key factor regarding the compliance of the cold chain in order to assure safety, quality and efficiency of the transported temperature sensitive goods (e.g. perishable foodstuff, vegetables and fruits). In addition there are high requirements for the transport of pharmaceutical products with regard to temperature resistance.

Approximately 15 % of all transports are temperature controlled transports.

The annual turn over of the export of products with temperature controlled transport in Europe is more than 5.300 bilion Dollars.

The annual turn over of the import of products with refrigerated controlled transport in Europe is more than 5.000 bilion Dollars.

About 87.000 new temperature controlled vehicles coming onto the Euopean market every year. In addition the re-examination of the vehicles on the market is required in order to grant the necessary temperatures for temperature sensitive goods.

2 BENEFITS EXPECTED FROM THE WORK OF THE CEN/TC

- assurance of the safety, quality and efficiency of the transported temperature sensitive goods (e.g. food, pharmaceutical products)
- less impact of noise and on the environment as well as improvement of energy efficiency
- cost savings through implementation of the standards

3 PARTICIPATION IN THE CEN/TC

All the CEN national members are entitled to nominate delegates to CEN Technical Committees and experts to Working Groups, ensuring a balance of all interested parties. Participation as observers of recognized European or international organizations is also possible under certain conditions. To participate in the activities of this CEN/TC, please contact the national standards organization in your country.

4 OBJECTIVES OF THE CEN/TC AND STRATEGIES FOR THEIR ACHIEVEMENT

4.1 Defined objectives of the CEN/TC

CEN/TC 413 is developping the following series of standards for devices and equipment of insulated means of transport for temperature sensitive goods.

(A) Testing methodologies of refrigerating devices for insulated means of transport

— *Part 1: Mechanical cooling device with forced air circulation evaporator and with or without heating device*

— *Part 2: Eutectic cooling devices*

— *Part 3: Dry ice cooling devices*

(B) Insulated means of transport for temperature sensitive goods – Requirements and testing

— *Part 1: Container*

— *Part 2: Equipment*

— *Part 3: Small containers*

4.2 Identified strategies to achieve the CEN/TCs defined objectives.

- two different working groups are established for "Devices" and "Equipment"
- Liaison with CEN/TC 113 "Heat pumps and air conditioning units"
- Liaison with CEN/TC 119 "Swap bodies for combined goods transport"

4.3 Environmental aspects

- energy efficiency
- application of refrigerants with a low impact on the environment
- low impact of noise

5 FACTORS AFFECTING COMPLETION AND IMPLEMENTATION OF THE CEN/TC WORK PROGRAMME

Expert resources are not sufficiently available.