

OSCE-UNECE

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on Developing
Euro-Asian Transport Links
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UNITED NATIONS

Das ist ein Titel



ATP

**Agreement on the International
Carriage of Perishable Foodstuffs
and on the Special Equipment to be
Used for such Carriage**

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45 Member - States

Albania - 26.01.2005	Greece - 01.04.1992	Romania - 22.04.1999
Austria - 01.03.1977	Hungary - 04.12.1987	Russian Federation - 10.09.1971
Azerbaijan - 08.05.2000	Ireland - 22.03.1988	Serbia - 12.03.2001
Belgium - 01.10.1979	Italy - 28.05.1971	Slovakia - 28.05.1993
Belarus - 03.08.2001	Kazakhstan - 17.07.1995	Slovenia - 06.08.1993
Bosnia and Herzegovina - 12.01.1994	Latvia - 06.02.2003	Spain - 24.04.1972
Bulgaria - 26.01.1978	Lithuania - 28.04.2000	Sweden - 13.12.1978
Croatia - 03.08.1992	Luxembourg - 25.05.1971	(Switzerland) - (28.05.1971)
Czech Republic - 02.06.1993	Moldavia – 11.09.2007	the former Yugoslav Republic - 20.12.1999 of Macedonia
Denmark - 22.11.1976	Monaco - 24.10.2001	Tunisia - 03.04.2007
Estonia - 06.02.1998	Montenegro - 23.10.2006	United Kingdom of Great - 05.10.1979 Britain and Northern Ireland
Finland - 15.05.1980	Morocco - 05.03.1981	Ukraine – 25.07.2007
France - 01.03.1971	Netherlands - 28.05.1971	USA - 20.01.1983
Georgia - 30.11.1998	Norway - 14.07.1979	Uzbekistan - 11.01.1999
Germany - 04.02.1971	Poland - 05.05.1983	
	Portugal - 28.05.1971	

Foodstuffs is very important

At time a lot of foodstuffs will
be lossed during
transport and storage, then
there is not enough
quality and safety

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Foodstuffs Losses

	Developed countries	Not so much developed countries
Food Losses*	10 %	28 %
Losses of fruit & vegetables*	15 %	40 %
Loss of perishable foods Through a lack of Refrigeration*	9 %	23 %

•Figures without losses by consumer

Datas from IIR – Juni 2009

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The opinion of experts:

On world there are enough foodstuffs for all – but there are many problems by

- *harvest,*
- *stores and*
- *transport*

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Increasing frozen foodstuffs

Increasing frozen foodstuffs in China: (as sample)

2002	10 bill USD	
2008	14 bill USD	+ 40 %

Forecast:

2013	20 bill USD	+140 %
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IIR-Newsletter 39

Chapter 1

Article 1

For international carriage of perishable foodstuffs, equipments shall not be designated as „insulated“, „mechanically refrigerated“, or „heated“ equipments unless it complies with the definitions and standards set forth in annex 1 to this agreement.

Many countries in Europe enforced this agreement also in national laws or regulations (a.s. France, Spain, Italy).

Chapter 1

Article 2

The Contracting Parties shall take the measures necessary to ensure that the equipment is inspected and tested for compliance with the said standards in conformity with the Provisions of annex 1, appendices 1-4 to this Agreement.

Each Contracting Party shall recognize the validity of certificates of compliance issued in conformity with annex 1, appendix 1, paragraph 4 to this Agreement by the competent authority of another Contracting Party.

Annex 1

Definitions of and standards for special equipment for the carriage of perishable foodstuffs

- 1.) Insulated equipment
- 2.) Refrigerated equipment
- 3.) Mechanically refrigerated equipment
- 4.) Heated equipment

Different types of bodies



Different bodies



Different bodies



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Annex 1, Appendix

Methods and procedures for measuring and checking the insulating capacity and the efficiency of the cooling or heating appliances of special equipment for the carriage of perishable foodstuff

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Annex 1

Methods and procedures for measuring and checking the insulating capacity and the efficiency of the cooling or heating appliances of special equipment for the carriage of perishable foodstuff.

Typtest for units (insulated body and refrigeration unit)

Checking (retest) of equipments in service



For Typetests - Test-Station



Annex 1, Appendix 1

Checks for conformity with prescribed in this annex shall be made:

- a) before the equipment is put into service
- b) periodically, at least once every year
- c) whenever required by the competent authority

Annex 1, Appendix 3

- A) Model form of certificate of compliance of the equipment
- B) Certification plate of compliance of the equipment

*K coefficient: 0,4-0,7 W/m²K
Safety factor: Refrigerating unit: 1,75*

Annex 1, Appendix 4

Distinguishing marks to be affixed to special equipment

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D TÜV 36-0709051 

Beförderungsmittel mit Equipment

Wärmedämmung <i>Insulated</i>	Kältepeicher <i>Refrigerated</i>	Kältemaschine <i>Mechanically Refrigerated</i>	Heizanlage <i>Heated</i>
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Bescheinigung Certificate

Industrie Service
 ATP-INCERT-Stelle
 Ridlerstraße 57
 80339 München
 Telefon +49 89 5190-3167
 Telefax +49 89 5155-1071
 062051, cs

ausgestellt entsprechend dem Übereinkommen über internationale Beförderung leicht verderblicher Lebensmittel und über die besonderen Beförderungsmittel, die für diese Beförderungen zu verwenden sind (ATP), issued pursuant to the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be used for such Carriage (ATP).

- Ausstellende Behörde / Issuing authority: TÜV SÜD Industrie Service GmbH, ATP-INCERT-Stelle
- Das Beförderungsmittel / Equipment: Sattelaufleger, YS-2P5
- Unterscheidungsnummer / Identification number: 05C1590-004
- Eigentümer oder Verfügungsberechtigter / Owner or operated by: Robert Riedel GmbH, Bahnhofstraße 2, D-82024 Taufkirchen, LAMBERET Deutschland GmbH
- Vorgeführt durch / Submitted by:
- Wird anerkannt als: Is approved as:
 - 6.1. mit / with one or more thermal appliances which (is) (are) Unterscheidungszeichen / Distinguishing mark: FRC
 - 6.1.1. unabhängiger(en) / independent
 - 6.1.2. abnehmbar(en) / removable
 - 6.1.3. abnehmbar(en) / removable
 - 6.1.4. nicht abnehmbar(en) / not removable
- Grundlage der Ausstellung der Bescheinigung / Basis of issue of certificate:
 - 7.1. Diese Bescheinigung wird ausgestellt aufgrund / This certificate is issued on the basis of:
 - 7.1.1. der Prüfung des Beförderungsmittels / Tests of the equipment
 - 7.1.2. der Übereinstimmung mit einem geprüften Muster / Conformity with a reference equipment
 - 7.1.3. einer wiederkehrenden Prüfung / A periodic inspection
 - 7.1.4. von Übergangsbestimmungen / Transitional provisions
 - 7.2. Wenn die Bescheinigung aufgrund einer Prüfung der Übereinstimmung mit einem geprüften Muster ausgestellt wird, ist anzugeben; If the certificate is issued on the basis of a test or by reference to an equipment of the same type which has been tested, specify:
 - 7.2.1. die Prüfstelle / the testing station: Cemafroid Centre de Bordeaux,
 - 7.2.2. die Art der Prüfung / the nature of the tests: Innenheizung
 - 7.2.3. die Nummer(n) der Prüfberichte / the number(s) of the report(s): BX4834 Cor.1, MR81,
 - 7.2.4. der k-Wert / the K coefficient: 0,355 W/m²K
 - 7.2.5. die nutzbare Kälteleistung bei einer Außentemperatur von 30°C und bei einer Innentemperatur
the effective refrigerating capacity of an outside temperature of 30°C and an inside temperature

von / of	0°C	17470 W
von / of	+10°C	12040 W
von / of	-20°C	9220 W
- Diese Bescheinigung gilt bis zum / This certificate is valid until: 11-2011
 - 8.1. unter dem Vorbehalt / provided that:
 - 8.1.1. dass der wärmegedämmte Kasten und ggf. die kälte- oder wärmeerzeugende Anlage in gutem Betriebszustand gehalten wird, the insulated body and, where applicable, the thermal appliance is maintained in good condition,
 - 8.1.2. dass keine wesentlichen Änderungen an den kälte- oder wärmeerzeugenden Anlagen vorgenommen werden, no material alterations is made to the thermal appliances,
 - 8.1.3. dass, falls die kälteerzeugende Anlage ersetzt wird, die Ersatzanlage eine gleich große oder größere Kälteleistung hat. If the thermal appliance is replaced, it is replaced by an appliance of equal or greater refrigerating capacity.

TÜV SÜD Industrie Service
 ATP-INCERT-Stelle

 Ivanov
 Ort / Done at: München am / Munich on 29.03.2006


FRC

11-2011

TÜV SÜD Industrie Service GmbH, ATP-INCERT-Stelle, Ridlerstraße 57, D-80339 München, e-mail: atp-cert@tuv-sued.de
 Tel.: +49 89-5190-3140, FAX: +49 89 5155-1071 / 062051, 0709051, 05C1590-004

160 mm

ATP APPROVED FOR TRANSPORT OF PERISHABLE FOODSTUFFS
 Zugelassen zur Beförderung leichtverderblicher Lebensmittel 062051

APPROVAL NUMBER: **D TÜV 36-0709051**
 TÜV-Zulassungsnummer:
 EQUIPMENT NUMBER: **05C1590-004**
 Aufbau- oder Identnummer:
 ATP MARK: **FRC**
 ATP-Klasse:
 VALID UNTIL: **11-2011**
 Gültig bis:

100 mm

TÜV SÜD Industrie Service GmbH, ATP-INCERT-Stelle, Ridlerstraße 57, D-80339 München, Tel.: +49 89 5190-3167, FAX: +49 89 5155-1071



Exampel of damages

Annex 2

Selection of equipment and temperature conditions to be observed for the carriage of quick (deep)-frozen and frozen foodstuffs

- [Annex 2, Appendix 1](#)

Monitoring of air temperatures for transport of perishable foodstuffs quick-frozen

- [Annex 2, Appendix 2](#)

Procedure for the sampling and measurement of temperature for carriage of chilled, frozen and quick-frozen perishable foodstuffs

ATP-Agreement Monitoring temperature

Annex 2, Appendix 1

Monitoring of air temperature for transport of perishable foodstuffs quick-frozen

The transport equipment must be filled with a suitable recording instrument to monitor, at frequent and regular intervals the air temperature to which quick-frozen foodstuffs intended for human consumption are subjected.

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Annex 3

Temperature conditions for the carriage of certain foodstuffs which are neither quick (deep)-frozen nor frozen

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Exampel of damages



Exampel of damages



Inside of body - hygiene



Annex1, Appendix 2

Checking the insulating capacity of equipment in service
This examination shall take the point of an inspection of the equipment to determinate the following in the follwing order:

- i. the general design of the insulating sheating
- ii. the method of application of insulation
- iii. the nature and conditions of the wall
- iv. the conditions of the insulated compartment
- v. the thickness of the walls

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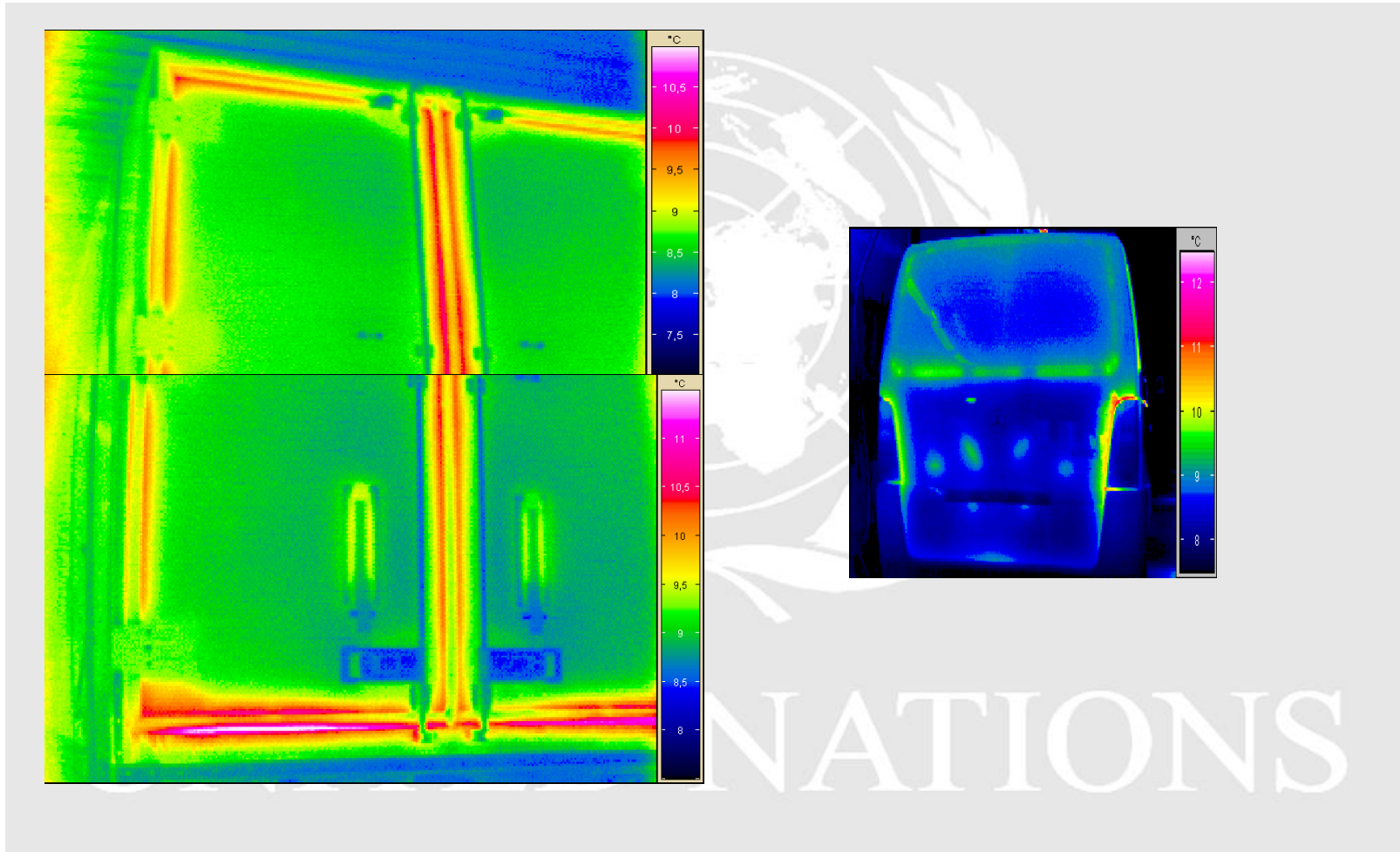
ATP-Agreement - Retest

Annex1, Appendix 2

The mechanically refrigerated equipment shall be verified that, when the outside temperature is not lower than + 15 °C, the inside temperature of the equipment, which has been previously brought to the outside temperature, can be brought within a maximum period of 6 hours.

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ATP – Insulated body





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Thank you for your attention

**Further a very successful
workshop**