



Zulassung vom Luftfahrt-
bundesamt (LBA) als
Reglementierter Beauftragter
DE/RA/00909-01/0716

Information on the ATP certificate

What does ATP?

(Accord relatif aux Transports internationaux de denrées Périssables et aux engins spéciaux à utiliser pour ces transports)

Behind the ATP designation is an agreement of most EU countries, which regulates the international transport of perishable foodstuffs.

It differs from the ATP various certification classes, the relevant conditions of carriage, the thermal insulation and temperature ranges set. For the refrigerated vehicles following validity criteria are decisive:

F Transport with built-in refrigerator

N Transport equipment with normal insulation ($K\text{-value} > 0.4 < 0.7 \text{ W / m K}$)

A Temperature class between $+12^\circ \text{C}$ and $+/-0^\circ \text{C}$

The "ATP Certificate", the "TÜV* certificate for refrigerated vehicles."

Within Germany still not yet required, but this certification is required by all, who are dealing in transport food across borders.

Our cooling vehicles are ATP certified. Even if the legislature does not stipulate the certificate required within FRG, but it is a sign of quality.

* TÜV = Technical Monitoring Association, independent auditor

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STATEMENT FROM THE REGULATIONS OF "ATP EUROPE" (March 1974)

TRANSPORT PROPERTIES OF LIGHT FOR PERISHABLE FOOD REFRIGERANTS

The means of transportation consists of a equipped with a cooling device construction in whose empty interior the temperature at a middle outside temperature of +30° degrees Celsius can be reduced and maintained in the following manner:

- | | |
|--------------|--|
| CLASS | A:
Equipped with a refrigeration unit of transport, in which the temperature is between +12 ° and 0 ° Celsius can be chosen. |
| CLASS | B:
Equipped with a refrigeration unit of transport, in which the temperature is between +12 ° C and -10 ° Celsius can be chosen. |
| CLASS | C:
Means of transport with cooling unit equipped, in which the temperature between +12 ° C and -20 ° Celsius can be selected. |

The cooling capacity of a unit is determined by a control in an approved testing center and held in a test report.

CERTIFICATION: Carried out according to two principles.

1. Effectiveness examination carried out in accordance to ATP norms

The examination is carried out within the refrigerated trucks (with the load compartment mounted cooling unit).

At an outside temperature of +30 ° Celsius, the aggregate must be able to reduce the inside temperature below the lowest value of the desired class and accompanied them to a heating load, the 35% of penetrating into the cargo hold heat corresponds to 12 hours to keep this value: $(K \times S_{mx} \wedge T_x 1, 35)$.

K = heat transfer coefficient - S_m = mean volume (m^2)

S_m = .. average internal surface area x average outdoor

The result of this examination is an overall protocol for cargo hold and Aggregate recorded.

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2. **Separate examinations, aggregate and cooling construction
(valid only in FRANCE, GERMANY and ITALY)**

On the basis of protocols, which are on the one hand, the thermal insulation of the cooling structure and on the other hand the useful cooling capacity of the unit set, the whole cooling construction / aggregate, using the following formula will be approved:

$$K \times S_m \times T \times 1.75$$

K = K-value - S_m = mean wall surface (m)

$S_m = \frac{1}{2} \times$ outer surface of the inner surface

NOTE: The K-value of cold storage facilities, which determines the classification under B and C must be less than or equal to 0.4 W / m ° C may be.

IDENTIFICATIONS, TO BE ATTACHED MARKINGS AND SIGNPOSTS

COOLING TRANSPORT UNIT

This statement must be followed as per the following list to identify characteristics:

Standard cooling truck:	Class A	FNA
Increased cooling truck:	Class A	FRA
Increased cooling truck:	Class B	FRB
Increased cooling truck:	Class C	FRC

In addition to the above identification code, the expiration date of the certificate of approval (month, year) must be registered on the plate.

Example:

FRC 06 2014

MODEL **FRC**

(**06** = month June - **2014** – year 2014)

VERY IMPORTANT!

Periodically check the expiration date of the certificate of approval. During the transportation at request by authority, the certificate of approval or provisional certificate has to be presented.

NOTE:

There are other provisions for the transport of perishable goods (ARI for the United States - JIS for Japan).