



ATCO OXYGEN ABSORBERS ATCO BOX

Technical Data Sheet

1°) SPECIFICATIONS

Reference	Type	Oxygen absorption capacity (l)	Dimensions (Ø x H mm)	Number of units / Pouch	Number of units/ Carton	Number of units / Pallet
V70040	ATCO BOX 40	8	65 x 69	1	40	2 000
V70075	ATCO BOX 75	15	65 x 69	1	40	2 000
V70150	ATCO BOX 150	31	97 x 97	1	27	486
V70250	ATCO BOX 250	52	97 x 97	1	27	486

Composition:

Packaging:

- Jar: PEHD,
- Lid: PE

Contents: mixing of iron and iron-oxide-based mineral active matters.

2°) AREAS OF APPLICATION

ATCO BOX is used in humid or dry micro atmospheres.

The technical specifications of the **ATCO BOX** make it a handy packaging component which finds its applications in many sectors of the food industry, in health-food industry, and also in the non-dietary sectors when large volume of oxygen have to be absorbed.

3°) PRECAUTIONS TO BE TAKEN

ATCO BOX oxygen absorbers should be used for products packed in low permeable oxygen packaging (20 ml/m²/24 h/atm) and perfectly closed.

The printed lid of **ATCO BOX** oxygen absorbers must not be removed.

The lid of **ATCO BOX** oxygen absorbers must not enter into contact with liquid phases.

Oxygen absorbers have to be put into a package design in such a way that air can circulate all over the volume.

A too long exposure to an anhydrous atmosphere might deteriorate their absorption capacity.

ATCO BOX oxygen absorbers are not designed for microwaves application or oven (iron based).

IMPORTANT:

Oxygen absorption reaction is exothermic. The process will start as soon as the overpouch is opened. The maximum exposure time in air between the removal from the vacuum pouch and the closure of the final

product must not exceed 15 minutes at 25°C with a relative humidity between 60 et 99 %.

4°) CALCULATION OF OXYGEN VOLUME TO BE ABSORBED

4.1. Volume of oxygen present at the time of packing

$$A = \frac{(V - P) \times 21}{100}$$

V= volume of the finished pack determined by submersion in water and expressed in liter.

P = weight of the finished pack in kg.

21 % = amount of oxygen in the air. This figure must be corrected after testing when a scanning or a substitution by compensated vacuum is carried out.

4.2. Volume of oxygen likely to permeate through the packaging during the life of the product.

This quantity in ml may be calculated as follow:

$$B = S \times P \times D$$

S = surface area of the pack in square meters.

P = permeability of the packaging l/m²/24h/atm.

D = life of the product in days.

4.3. Capacity of ATCO absorbers to be used

$$C > A + B$$

C = Capacity of the absorbers in l (see Table page 1).

Of course, the result should be rounded off to the superior whole number and, if necessary a safety margin can be applied. Indeed this calculation is not always accurate enough for all applications. It does not take into account, for example, the variations in permeability to oxygen according to humidity, and differences at this level can be very important for some polymers (EVOH).





5°) REGULATORY ASPECTS

The packaging is compatible with food contact. The printed text on the lid mentions in several languages the advice "do not eat". Even if they are not intended to be eaten, ATCO absorbers are made from non toxic materials and can be put into normal waste bins. No risk of toxicity is expected even in case of accidental ingestion.

It is the user's responsibility to check if the use of oxygen absorbers is in conformity with effective regulations.

In the European Community, ATCO oxygen absorbers are subjects to EU regulations CE/1935/2004 and CE/450/2009 when they may enter into contact with food.

It is advised to stipule the presence of the absorber directly on the final product labelling.

Oxygen absorber is part of the packaging; discard without opening before using the packed product. Do not use in oven or microwave.

6°) STORAGE

ATCO oxygen absorbers must be stored in a well ventilated area to avoid any risk of oxygen depletion, in their original cartons. The cartons or pouches should not be directly exposed to sun light. **ATCO** absorbers may be stored at room temperature (25°C) for at least one year, without detectable deterioration of their performance.

7°) MEANING OF THE BATCH NUMBER

The batch number is made up of 13 figures:

Example : 202101304-205

- first four figures for the year	2021
- 2 figures for the setting up week	01
- 1 figure for the setting up day	3
- 2 figures for the machine number	04
- 1 dash	-
- 1 figure for the team number	2
- 2 figures for the production order number	05

The present document is CONFIDENTIAL and exclusive property of LABORATOIRES STANDA. Reproduction, divulgation, publication, even on internet, are prohibited except with a written authorization of LABORATOIRES STANDA.

Information included in the present document is coming from research conducted by LABORATOIRES STANDA. It is given in good faith and considered as exact. Nevertheless, since conditions and methods of use of our products are not under our control, this information cannot replace validation tests in real conditions of use. Such tests must be conducted before any use on large scale to ensure that our products meet your needs and requirements.

Reference data sheet:
GB SFT ATCO BOX V70 20210823 C

