



**FUSTIPLAST**



Flubox® Food

## **IBC for food application**





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Packaging for food application

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The packagings that come in direct contact with food, have to meet certain requirements to ensure that they cannot constitute a cause of pollution, endangering the human life.

The **Flubox**<sup>®</sup> *Food* IBC is suitable for food application and can be easily identified from a green label on its plastic bottle.





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EU – US Rules

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## EU

- Framework Regulation 1935/2004/EC
- Commission Regulation Nr 10/2011 of 14/01/2011

## US

- Food and Drug Administration FDA





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EU Rules

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## EU – Framework Regulation 1935/2004/EC

Materials and articles, including active and intelligent materials and articles, shall be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

(a) endanger human health;

or

(b) bring about an unacceptable change in the composition of the food;





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EU Rules

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## EU - Commission Regulation Nr 10/2011 of 14/01/2011

Plastic packaging may not transfer its shares to food

- **Overall migration limit (OML):** the maximum permitted amount of non-volatile substances released from a material or article into food simulants
- **Specific migration limit (SML):** the maximum permitted amount of a given substance released from a material or article into food or food simulants





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US Rules

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## US – Food and Drug Administration FDA

Detailed description of the food contact approved materials, such as:

- Olefin polymers (PE): Article 21 CFR § 177.1520
- Rubber articles for repeated use: Article 21 CFR § 177.2600
- Colorants for polymers: Article 21 CFR § 178.3297





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**Flubox<sup>®</sup>FOOD** IBC is produced according to good Manufacturing practice (GMP) and the raw materials used comply with EU and US requirements for food contact.

Hygiene

- Approved raw materials
- Components tested for Migration
- IBC characterized
- Materials traceability
- Sporadic review of the number of bacteria performed by customers (on request)





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Plants equipments and production environment

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- Pest control throughout the factory site
- Cleaning schedules for all areas

**In areas with special requirements (for food):**

- hygiene rules for staff and visitors, according to HACCP standards
- jewellery Policy
- hygiene training of staff
- wear protective clothing (hair net, gloves, etc.)
- preventive measures for glass breakage
- consistent closing of doors and windows





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Additional requirements in Fustiplast production

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- silicone-free manufacturing
- heavy metals not exceed 100 ppm
- cleaning of compressed air by micro-filters
- IBC production just-in-time
- components (valves/lids) double packaged
- visual inspection for foreign matter immediately after the blowing process and closure of the inner container with the screw cap
- water test after the sealing of the valve





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More than just pure materials

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- immediate transfer of the blow moulded bottle directly into the final assembly (no intermediate storage)
- second visual check after the leak test
- bar code identification for traceability
- delivery of the IBC in plastic cover (on request)
- storage of finished IBC under roof
- control of transport vehicles for cleanliness before loading





# Flubox® Food

## Food Contact Conformity Declaration and Kosher Certificate



|                   |  |                             |                                    |
|-------------------|--|-----------------------------|------------------------------------|
| <b>FUSTIPLAST</b> | <b>FOOD CONTACT CONFORMITY DECLARATION</b> | Rev. 6<br>dated 30 oct 2009 | Written and<br>approved by Dir Gen |
|-------------------|--|-----------------------------|------------------------------------|

**Messrs. -insert customer identification-**

< Issuer enterprise and address (i.e. Fustiplast SpA, Viale Industria, 33 ... ) >

Herby declare that the components in thermoplastic materials intended to come into contact with the product, containers FUSION with rec/lever/website valve provided to you, identified by the code:

-write item code supplied-

- Are conform:
  - to the following European community laws: Regulation 1935/2006/EC, Regulation 1831/2003/EC, Directive 2002/72/EC and following updates
  - and to the following Italian laws: DPR 777/82 and following modifications and updates, DM 21/03/1973 and following modifications and updates
- The material does not contain substances subject to restrictions in the laws mentioned and is eligible for transportation of substances at room temperature under conditions similar to migration testing carried out at 40 degrees for 10 days. The user must verify that the container is not used improperly (eg heating products, exposure to high temperatures, etc.).  
The overall migration limits, together with specific restrictions about monomers and / or additives present in the material, are respected in the conditions of use mentioned above. The claim is supported by the statements of suppliers of raw materials, from analytical tests carried out on Flubox body using the 4 food simulants in accordance with the directives 82/71/EEC and 85/372/EEC and DM 21/03/1973 and / or under to calculations made taking into consideration the content of substances subject to limits migration. The calculations were made assuming that 1 kg of food is in contact with 8 dm2 of packaging material
- Our production process is conform to COMMISSION REGULATION (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.
- The material may contain substances regulated by Directives 89/107/EEC and 88/348/EEC, the DM 27/02/1996, No 209, Legislative Decree No 25/01/1992 107 by Legislative Decree No 27/01/1992 109 and the Decision 1999/217/EC. According to experimental data and / or theoretical calculations such substances comply with the provisions of art. 5a Directive 2002/72/EC and art. 9 paragraph 2, letter c) of DM 21/03/1973.  
The user of the material intended for contact with food has a responsibility to inform the company writing any restrictions because of the compositional (presence of additives and flavorings) of food to pack.
- The raw materials used are in conformity with the Directive 94/62/EC of the European Parliament and Council, 3rd December 2006 1996, and following updates, regarding packaging and packaging wastes, as declared in our suppliers' certificates; during the manufacturing process, there is no addition of heavy metals such as lead, cadmium, mercury and chromium.
- The gasket inserted in the lids is accompanied by declaration of compliance in the chemical nature, and quantity of ingredients and rubbers used as required by "Titolo 21 CFR 177.2600" FDA
- The suitability of packaging for food applications does not guarantee any organoleptic compatibility with therein filled product; such compatibility must hence be verified individually under container user responsibility.  
The requirement of suitability of container for the transport of food substances or substances intended to come into contact with substances for personal use, must be formally specified on each purchase order.  
The absence of contamination by pathogens can be obtained only for targeted productions, produced on specific customer request, controlled from production to delivery to the customer, but in any case, when fill containers must verify that hygienic conditions of the containers are appropriate and/or provide for any necessary action of cleaning / sanitizing.

This CONFORMITY DECLARATION is valid for the period of one year from the date of emission and will be updated if important changes in container manufacturing able to change conformity requests will arise, or when law references specified in point 1 will be modified and updated

Date \_\_\_\_\_ Vigintio Cassina

|  |   |
|--|---|
| <p><b>RABBI ABRAHAM HOCHWALD</b> ב"ח<br/>Landesrabbiner von Nordrhein a.D.<br/>his son: <b>RABBI T. HOD-HOCHWALD</b><br/>Expert for Kosher Foods &amp; Ingredients<br/>Bad Kissingen, Germany<br/>Belgium B-2018 Aalwerp, Gelestraat, 7<br/>Germany<br/>E-mail: <a href="mailto:kosher@ramdora.be">kosher@ramdora.be</a> / <a href="mailto:hochkosher@vodafone.de">hochkosher@vodafone.de</a></p> <p>Tel/Fax: (0032)-3-281.12.22<br/>Tel/Fax: (00972)-8-922.63.71<br/>Tel: 0049-172-531-63.71 Fax: 0049-172-531-6968</p> <p>Ref 7323</p> | <p><b>הרב אברהם הוכוולד</b> י"ל<br/>הרב למדינת צפון הריין (גרמניה)<br/>ב"ח: <b>הרב ט. הוד-הוכוולד</b><br/>מומחה לכשרות מאון וחמירי גלם<br/>בבאד קיסינגן, גרמניה<br/>אנטוורפן - בלגיה<br/>ישראל<br/>גרמניה<br/>דואר אלקטרוני</p> |
|--|---|

25/06/2009 • תמוז תשס"ט

### תעודת כשרות

הנני מאשר בזה כי בדיקתי את הרכיבים ותהליך הייצור והאריזה של המוצרים:  
**כלי אחסון המטורפים בחלק הרוקני של תעודה זו**  
המוצרים ע"י תרה **פרוסטפלאסט** -הוקעלהופטן. גרמני. ואין הם מכילים. וגם אינם באים במגע עם שום חמרים לא-כשרים בשת הייצור והאריזה.  
לפיכך המוצרים תהי' **כשרים** - "יהודיין" פרווה לכלי ימות השנה כולל ימי תג הפסח וזמן תעודת כשרות זו הוא שנה אחת.  
ועל זה באתי על החתום היום. תמוז תשס"ט.

הרב ט. הוד-הוכוולד  
ב"ח-מחברת (א. חתומה)

### KOSHER CERTIFICATE

I hereby certify that I inspected the ingredients and the production and packing process of:

**Flubox IBC  
Polyethylene Drums**

produced by **Fustiplast GmbH** in Hückelhoven (Germany) and I found that they do not contain, nor come in contact with any non-kosher substances in the course of production and packing.

They are therefore **KOSHER -"Mehadrin"** parve for the all year including for the Passover days.  
This certificate is valid for one year, until end of June 2010.

In witness thereof I sign today 25/06/2009.

Rabbi T. Hod - Hochwald  
Son of Rabbi A. Hochwald Z"l



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The steel cage

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The protective cage is made out of square section galvanized steel tubes, which are woven and electro welded in 360 points without added metal. The 360 electro welded points are electronically checked (same technology used for the contemporary production of car bodies). This fact guarantees the extreme resistance and the high stability of the cage, avoiding both the typical stresses of arc-welding and the oxidation.

The cage manufacturing is totally automatic and involves electronic checks of the welding points. This production process is patented in Europe and in the US.





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The pallets

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**Hybrid:** it is constituted by a galvanized iron pallet with plastic feet; it is suggested for frequent and repeated handling as the plastic feet are extremely strong and crushproof.



**Plastic:** produced with the extrusion-blow moulding technology. It is made of high density, high molecular weight polyethylene. Its performances are appreciated for multi-way uses and in food applications due to its smooth surfaces very easy to clean. Thanks to the production process and to the raw material used, it shows very high resistance to critical temperatures (-18° C; +60°C).





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The bottles



**Double natural layer** to allow a perfectly visibility of the product contained and a quick check of the remaining content thanks to the graduated scale in relief.

Light permeation: < 60%

UV permeation: < 40%



**White outer layer and natural inner layer**, to protect the photo sensitive and the thermo sensitive products.

Light permeation: < 20%

UV permeation: < 0,5%



**Black outer layer and natural inner layer**, to protect photosensitive products from the light.

Light permeation: < 1%

UV permeation: < 0,3%





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The lids and the valves

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**Lids (150 – 225 mm):** available in different configurations and with different venting systems.

Master batches and gasket EC and FDA approved



**Valves (2" and 3"):** butterfly system, directly welded to the PE bottle. PP disk with PE over injected gasket and internal surface PE coated.





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The evolution

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**FLUBOX<sup>®</sup> FLEX**

***The first one-way IBC for aseptic fillings***





**FLUBOX<sup>®</sup> FLEX**

**FUSTIPLAST**

In cooperation with

