

EPS Packaging Preserving food freshness



EPS Boxes - Ice Packs - Absorbent Pads - Pallets



January 5th 2017

Fresh all the way



Because expanded polystyrene (EPS) packaging consists of up to 98% air pores it is normally very light compared to the packaged food. EPS boxes are very well insulated and maintain optimal product temperature longer than e.g. cardboard and corrugated plastic packaging.¹ They are water resistant and the white colour offers protection against thermal radiation and makes it easier to detect possible impurities in food. EPS packaging is strong relative to weight, which is especially important for air transport.

EPS packaging is suitable for the following:

Fish boxes: Whole and beheaded salmon, trout, cod, catfish, etc.

Fillet boxes: Fillets and loins.

Meat boxes: Lamb, beef, etc.

Vegetable boxes: Cucumbers, tomatoes, potatoes, cabbage, etc.

Sensitive electrical equipment, etc.

EPS packaging – environmentally friendly solution

The raw material yield is maximised by high-technology manufacturing equipment. The production of EPS requires only water, environmentally friendly energy, steam and air. No ground water is contaminated during production, usage or recycling of EPS packaging. It is food grade approved and meets all requirements of a modern society.

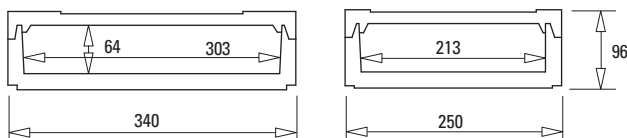
Awareness in recent years on the environmental impact of packaging has led to the consideration of the total environmental cost of each packaging option throughout its life cycle. The amount of natural resources, such as energy, during production and usage of the packaging is important. Furthermore, effects on water usage, pollution and land utilisation must be considered and compared to other options. Plastic is widely used for energy production, thereby decreasing landfill disposal. Plastic is relatively light compared to other food packaging materials, thus requiring lower transport cost. When all this is taken into account, plastic is often the preferred choice for food packaging.

1) Margeirsson, B., Gospavic, R., Pálsson, H., Arason, S., Popov, V. 2011. Experimental and numerical modelling comparison of thermal performance of expanded polystyrene and corrugated plastic packaging for fresh fish. <http://www.sciencedirect.com/science/article/pii/S0140700710002252>. International Journal of Refrigeration 34 (2):573–585.

Fillet boxes

Lobster/Scampi box 1.5 kg

Quantity	Volume capacity	Weight
1.5 kg whole lobster	4.0 L	89 g



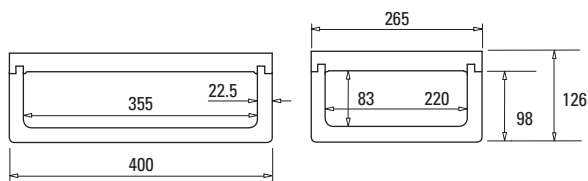
Product number
40342509



Fillet box 3 kg

Quantity	Bag	Volume capacity	Weight
3 kg	46415002 inside 46404704 outside	6.1 L	180 g

Also available with drainage holes for sea transport.



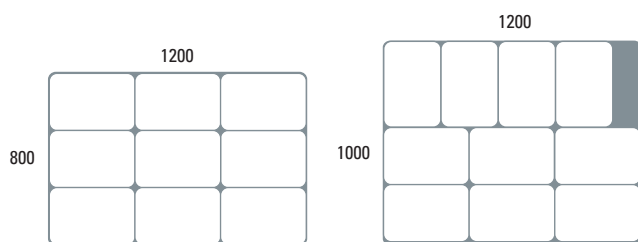
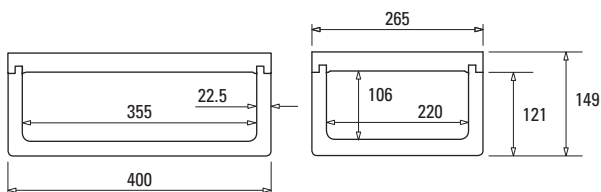
Product number
40402611



Fillet box 5 kg

Quantity	Bag	Volume capacity	Weight
5 kg	46415002 inside 46404704 outside	8.0 L	199 g

Also available with drainage holes for sea transport.



EURO-pallet

ISO-2

Product number
40402613



Example of arrangement of 3 kg and 5 kg boxes on a pallet.

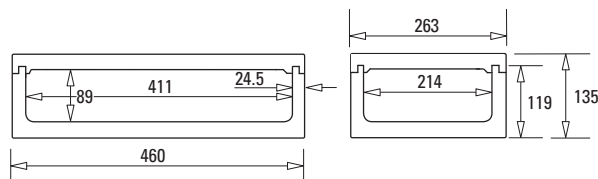
Fillet boxes

Product number
40462612



Fillet box, long 5 kg

Quantity	Bag	Volume capacity	Weight
5 kg	46485002 inside 46484704 outside	7.2 L	218 g

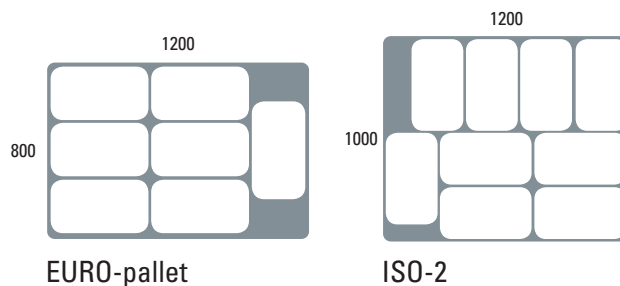
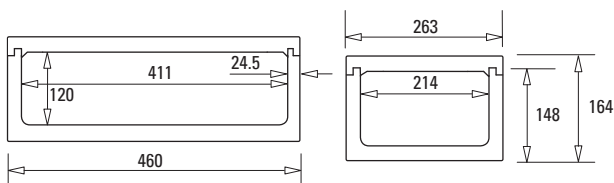


Product number
40462615



Fillet box, long 7 kg

Quantity	Bag	Volume capacity	Weight
7 kg	46485002 inside 46484704 outside	9.8 L	242 g



Example of arrangement of 5 kg and 7 kg long boxes on a pallet.

Guidelines for ice pack usage:

The equation to the right can be used to roughly estimate the necessary number of 250 g ice packs needed in order to maintain product temperature at 0 °C.

The box is assumed to be tightly packed and the initial fish and ice pack temperatures are assumed to be 0 °C.

Inaccuracy can result from the following:

- Box is not tightly packed.
- Initial fish temperature is a few degrees above 0 °C (poor precooling).
- Box is located in the middle of a pallet stack.

Note that the equation is a simplification and can not be used for precise calculations of cooling capacity.

$$n = \frac{f * t * h * k}{d}$$

n = no. of ice packs of type 4131171500 (250 g).

f = inner surface area [cm²].

t = mean ambient temperature [°C].

h = holding time for fish at 0 °C.

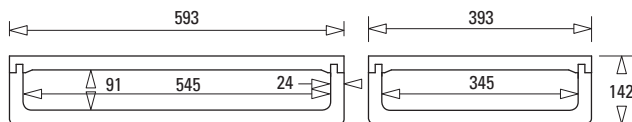
k = 0.000013 (constant).

d = weighted average wall thickness
(sides, bottom, lid) [cm].

Fillet box 10 kg

Quantity	Bag	Volume capacity	Weight
10 kg	46607502 inside 46627004 outside	16.1 L	416 g

Also available with drainage holes for sea transport.



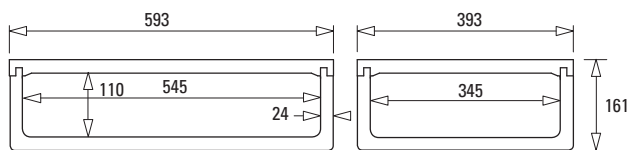
Product number
40604010



Fillet box 13 kg

Quantity	Bag	Volume capacity	Weight
13 kg	46607502 inside 46627004 outside	19.6 L	437 g

Also available with drainage holes for sea transport.



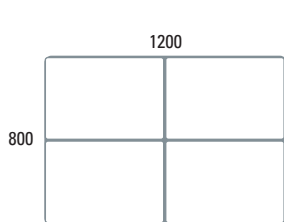
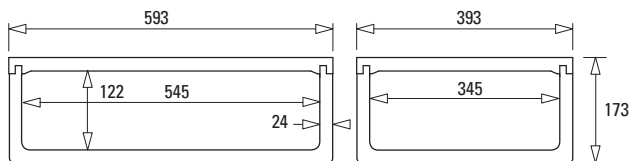
Product number
40604013



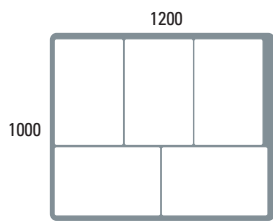
Fillet box 15 kg

Quantity	Bag	Volume capacity	Weight
15 kg	46607502 inside 46627004 outside	21.1 L	447 g

Also available with drainage holes for sea transport.



EURO-pallet



ISO-2

Example of arrangement of 10 kg, 13 kg and 15 kg boxes on a pallet.

Product number
40604015



Imprinting

Temptra uses the best available technology for imprinting e.g. logos or brand names on EPS boxes.

Contact our sales representatives for further information.



TEMPRA
einengrün - umbüßer

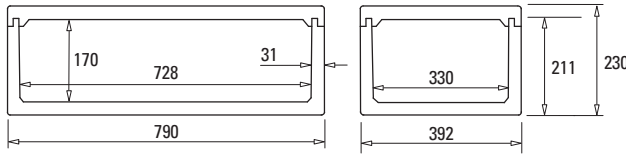




Fish box 23 kg

Quantity	Bag	Volume capacity	Weight
23 kg	46996702 inside 46709906 outside	40.2 L	750 g

Also available with drainage holes for sea transport.



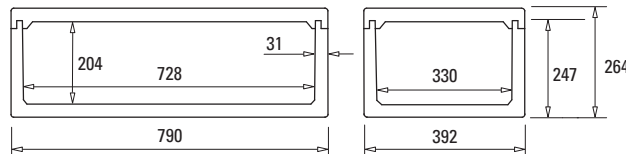
Product number
40783921



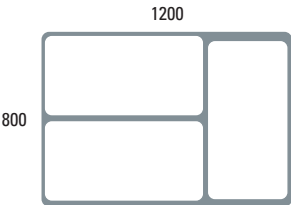
Fish box 25–27 kg

Quantity	Bag	Volume capacity	Pyngd
25–27 kg	46996702 inside 46709906 outside	48.5 L	786 g

Also available with drainage holes for sea transport.



Product number
40793925



EURO-pallet (40794024)

Example of arrangement of 23 kg and 25–27 kg fish boxes on a pallet.

Ice packs

Product number
4217152500



Ice pack 125 g

Weight	Size	Unit of sales
125 g	175 x 155 x 13 mm	2048 pcs.

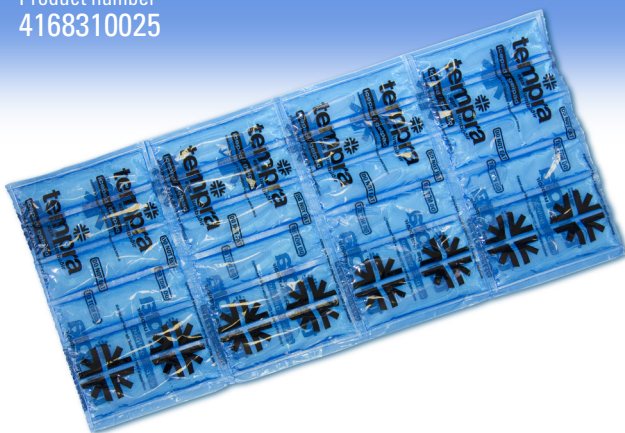
Product number
4131171500



Ice pack 250 g

Weight	Size	Sales unit
250 g	310 x 175 x 13 mm	1024 pcs.

Product number
4168310025



Ice pack 1000 g

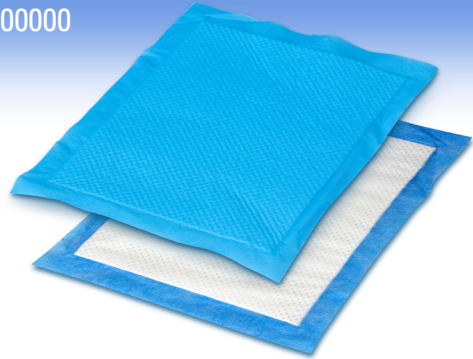
Weight	Size	Sales unit
1.000 g	705 x 310 x 13 mm	250 pcs.

Absorbent pads

Absorbent pad 0.6 L

Weight	Sales unit	Size
13 g	400 pcs.	240x180 mm

Product number
4535200000



Absorbent pad 5 L

Weight	Sales unit	Size
83 g	200 pcs.	720 x 320 mm

Product number
4576370000



Pallets

Plastic pallets LP 1208

Weight	Size
5.2 Kg	(L x W x H): 1200 x 800 x 160 mm

Product number
491208EPS

