



**Something Cool**  
De Ridder Packaging

**COOL** **PACK**  
COLD CHAIN SUPPLIER

ENGLISH



Brochure gel packs

# Which gel pack do you need?

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DE RIDDER PACKAGING



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# Introduction

Transporting goods without compromising quality can sometimes be quite a challenge. Certain products need to be transported chilled in order to arrive at their destination in optimal condition. One way to ensure the temperature of your products during transport is to use gel packs. De Ridder Packaging can supply these in all kinds of shapes and sizes. But which gelpack is most suitable for your situation? In this brochure you can read more about the different types and applications of gel packs.

If you have any questions based on this brochure or if you would like to place an order, please feel free to contact us. Our experts will be happy to help you.





## What are gel packs?

Gel packs are leakproof polyethylene bags filled with a polymer-based gel. The foil and gel used for De Ridder Packaging's gel packs meet the strictest requirements and wishes for packaging in the food industry. The gel packs are non-toxic and food proof. This means that the gel packs may come into contact with food.

Gel packs are in principle a disposable product and are therefore often used once-only. When you want to use the gel packs again, you should therefore check whether they are properly cleaned and undamaged. Damaged gel packs cannot be used again.

Gel packs are used for chilled (or conditioned) transport of goods. There are many different types of products that need to be transported from A to B protected. Industries in which gel packs are frequently used are the food industry (e.g. fish, meat and fruit and vegetables), the medical industry (pharmacy and blood transport) and the flower industry.

The gel packs are usually used for shipments of up to 24 hours. Depending on the type of packaging and the amount of cooling, longer transports can also be well bridged. The regular gel packs are designed to transport goods between 0 and 8 degrees Celsius. For other temperature ranges Phase Change Material can be a solution. The cooling capacity of the gel packs depends on the duration of cooling and many external conditions.

# Why and when are gel packs the ideal solution?

A frequently heard reason to prefer gel packs over rigid cooling elements is the relatively low cost price. Gel packs are also a popular refrigerant for transports without a return procedure, because they lend themselves - compared to form-fixed cooling elements - well for single use. Moreover, gel packs can also be the ideal solution in various situations for other reasons.

For example, they are particularly suitable for transport by air. Unlike shrapnel ice, gel packs do not leave behind melt water. Since melt water is not allowed in airplanes because it can lead to dangerous situations, chilled transport by means of gel packs is often the best solution. In addition, a gel pack offers advantages over solutions such as dry ice. There are no limits on the number of gel packs that can be carried on an airplane, while there is a maximum amount of dry ice per flight.



## Which gel pack do you need?

If you have chosen to cool your products with gel packs during transport, the question remains which type of gel pack is most suitable for your intended application. You can choose from different standard sizes. Customized solutions are also possible. In this brochure you can read all about the different types of gel packs and for which applications they are most suitable. Do you have any further questions, or would you like to receive personal advice from an expert? Feel free to contact us.



## Original gel pack

The Original gel packs of De Ridder Packaging are leakproof bags consisting of one layer of polyethylene, filled with a cooling gel based on polymers. The foil and gel used for the gel packs meet the strictest requirements and wishes for packaging in the food industry. This means that the gel packs may come into contact with food without any consequences. The gel packs are at all times made with brand-new material to ensure high quality.

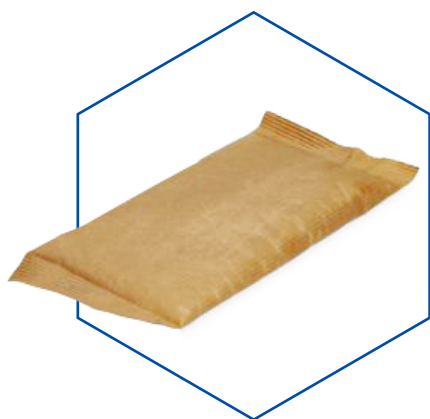
The Original gel packs can be used in many industries and are therefore a popular option. Think for example of branches such as fish, flowers, pharmacy, medical and web shops. The Original gel packs are available in many standard sizes, ranging from 100 to 1360 grams. The most popular standard sizes can be ordered through the web shop of De Ridder Packaging.

All gel packs are manufactured in-house at De Ridder Packaging. Is your desired size not listed? Then it is possible to have the gel packs custom-made. Moreover, you can choose to have the gel packs printed with your own design. For information or advice, you can always contact us. Our experts will be happy to offer solutions.

## Standard measurements

Type	Length x Width	Weight	Pieces per box*
Original	100 x 150 mm	100 gram	100
Original	100 x 135 mm	146 gram	105
Original	100 x 150 mm	150 gram	90
Original	100 x 140 mm	175 gram	84
Original	100 x 190 mm	200 gram	80
Original	100 x 166 mm	230 gram	72
Original	100 x 190 mm	250 gram	64
Original	150 x 152 mm	250 gram	64
Original	150 x 152 mm	275 gram	56
Original	150 x 200 mm	300 gram	60
Original	150 x 152 mm	300 gram	56
Original	200 x 200 mm	300 gram	52
Original	150 x 152 mm	340 gram	48
Original	100 x 280 mm	375 gram	44
Original	150 x 200 mm	400 gram	44
Original	150 x 200 mm	450 gram	36
Original	150 x 182 mm	453 gram	36
Original	150 x 200 mm	500 gram	32
Original	200 x 130 mm	500 gram	36
Original	275 x 130 mm	640 gram	26
Original	275 x 134 mm	640 gram	27
Original	200 x 200 mm	650 gram	24
Original	150 x 200 mm	680 gram	24
Original	150 x 210 mm	690 gram	24
Original	150 x 230 mm	750 gram	12
Original	150 x 266 mm	800 gram	18
Original	150 x 266 mm	907 gram	18
Original	150 x 296 mm	1000 gram	18
Original	200 x 270 mm	1100 gram	16
Original	200 x 270 mm	1360 gram	12

\* A Europallet fits 40 boxes.



## Kraft gel pack

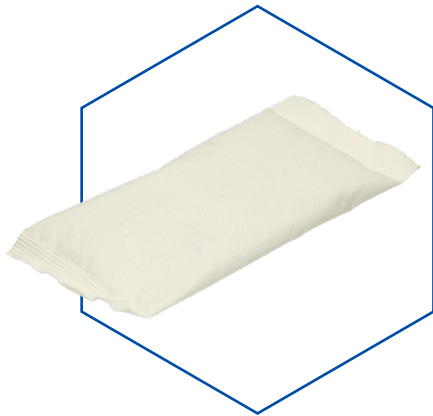
The Kraft gel packs are characterized by a kraft paper layer on the outside. Kraft paper is strong and durable. The long paper fibres are pressed together very tightly, creating a high density. The durable appearance of the gel pack is the reason that many companies choose this product.

The Kraft gel packs are available in different standard sizes. These can usually be supplied from stock. Because the gel packs are manufactured by De Ridder Packaging itself, it is possible to have your Kraft gel packs custom-made for you on request and, if desired, to have them printed. However, customization possibilities are more extensive for the Original gel packs. For personal advice you can always contact our experts.

### Standard measurements

Type	Length x Width	Weight	Pieces per box*
Kraft	100 x 140 mm	175 gram	84
Kraft	100 x 190 mm	200 gram	80

\* A Europallet fits 40 boxes.



## No sweat gel pack

For shipping products that are moisture and temperature sensitive, No sweat gel packs can be the ideal solution. This innovative gel pack is designed to minimize surface condensation. This makes them very suitable for use in both tempex boxes and cardboard boxes, because any moisture is captured by the gel pack and does not end up in the box.

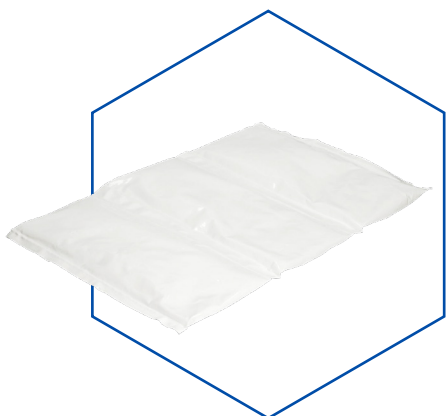
The bag of the gel pack consists of multiple layers, with a covering of non-woven material. This outer layer absorbs the condensation that occurs during shipping. This ensures that moisture-sensitive products reach their destination in the optimal condition. A fairly specific application of a no sweat gel pack is for products for biological crop control. No sweat gel packs are also being used more and more in the medical and pharmaceutical industries.

The No sweat gel packs are available in various standard sizes. Is your desired size or weight not included? If so, we will be happy to tell you more about the possibilities for tailor-made No sweat gelpacks. Printing the No sweat gel packs is also possible. However, the best printing quality is achieved on gel packs without a No sweat outer layer.

### Standard measurements

Type	Length x Width	Weight	Pieces per box*
No sweat	100 x 190 mm	200 gram	80
No sweat	150 x 200 mm	400 gram	40

\* A Europallet fits 40 boxes.



## Segmented gel pack

Segmented gel packs (also called switched gel packs) are gel packs that consist of two or more different compartments. Segmented gel packs have, in addition to the characteristics of the Original gel packs, the advantage that they are more flexible. You can easily fold them around the goods that are to be transported, so that they remain optimally chilled. If that is what you wish, Segmented gel packs are probably the right solution for you. They are often used in the medical sector, for example when transporting blood tubes.

Segmented gel packs can be custom-made to fit an EPS (tempex) box, so that the entire contents can be covered with a gel pack. In this way, a product can be completely packed in a cube to achieve optimal cooling results.

For this type of gel pack as well, both standard sizes and customization are available. The Segmented gel packs can only be manufactured from the material of which the Original gel packs also consist. Printing the Segmented gel packs is also possible. For free and personal advice, you can contact one of our experts at any time.

### Standard measurements

Type	Length x Width	Weight	Pieces per box*
2 segmenten	200 x 282 mm	400 gram	39
2 segmenten	150 x 460 mm	450 gram	30
2 segmenten	200 x 282 mm	555 gram	30
2 segmenten	275 x 360 mm	800 gram	20
3 segmenten	275 x 360 mm	500 gram	30
3 segmenten	200 x 370 mm	800 gram	20
3 segmenten	200 x 370 mm	830 gram	20

\* A Europallet fits 40 boxes.



## PA-PE gel pack

PA-PE gel packs are gel packs with a thicker covering, so the gel packs are extra strong. The foil consists of three layers, where the inner and outer layer are made of polyethylene. The middle layer is made of polyamide, to increase the resistance of the gel pack.

The Original gel packs are in principle strong and resistant, but if you are in need of gel packs that are even less vulnerable, the PA-PE gel packs are recommended. For example, they will be more resistant to sharp objects.

The PA-PE gel packs are available in some standard sizes with a width of 150 mm. If you have specific wishes or requirements, customization is also an option. Printing is also possible on the PA-PE gel packs. Would you like personal advice or are you curious about the possibilities? Our experts will be happy to help you. Feel free to contact us.





# Traypack gel pack

The Traypack gel pack distinguishes itself in a few ways from the above-mentioned gel packs. First of all, the shape is different. The Traypack gel pack has the shape of a sturdy container, which is sealed at the top on all four sides. In addition, the foil used for the Traypack gel packs is twice as thick as the regular gel packs.

In addition, the Traypack gel pack offers a lot of space for specific requests, such as dimensions. This is one reason why this type of gel pack is often chosen. A thickness of no less than 40 mm can be achieved, which means that a higher weight can be achieved compared to the regular gel packs. It is also possible to divide the Traypack gel pack into compartments with a width of up to 380 mm. This creates a segmented gel pack, with the flexibility in dimensions of the Traypack gel pack.

If you are looking for a dimensionally stable cooling element, the Traypack could be a solution. The Traypack is also available in the form of a Foambrick or Spongepack, so the shape remains the same in both frozen and unfrozen condition. You can read more about this in the brochure with dimensionally stable cooling elements, or on our website.

The Traypack gel packs are available in various standard sizes, but can also be custom made for you. It is also possible to print the Traypack gel packs according to your wishes, for example with your company logo. Would you like to know more about the possibilities? Feel free to contact one of our experts.

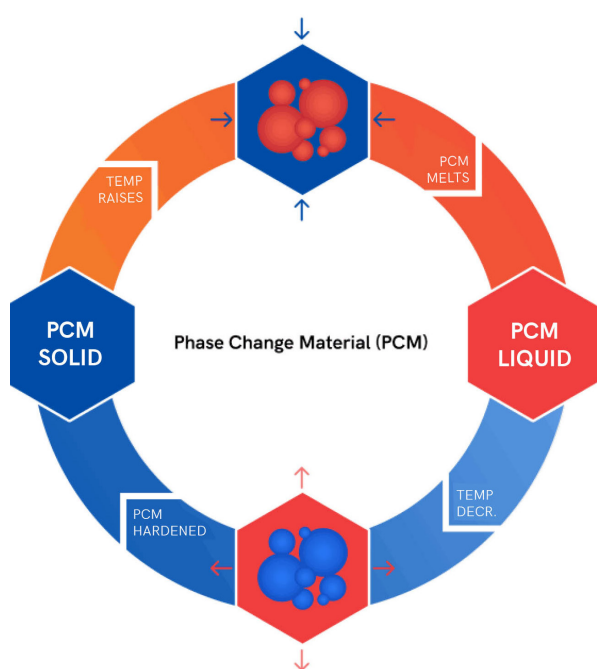
## Standard measurements

Type	Length x Width	Weight	Pieces per box*
Traypack	100 x 150 mm	200 gram	80
Traypack	150 x 190 mm	200 gram	80
Traypack	150 x 190 mm	300 gram	56
Traypack	150 x 190 mm	400 gram	44
Traypack	150 x 190 mm	680 gram	28
Traypack	300 x 380 mm	1200 gram	12

\* A Europallet fits 40 boxes.

# Phase Change Material

Are you transporting goods that need to remain within a small and stable temperature range? Then you can choose gel packs filled with Phase Change Material (PCM) instead of standard cooling gel. PCM is a collective name for all materials that can change phase. This filling is distinguished by the addition of a substance, such as salt, glycones and kerosene. Different substances result in a different melting point, which can be adjusted. This makes it possible to cool a gel pack to -21 Celsius or to increase the solidification point to +20 degrees Celsius. Other temperature ranges are also possible. This then becomes customization.



There are several situations imaginable in which the standard cooling gel, which covers a temperature range from 0 to 8 degrees Celsius, is not sufficient. This is, for example, the case when transporting various medicines. In the pharmaceutical sector, strict GDP (Good Distribution Practices) guidelines often apply. These relate to the transport conditions of medication, and the temperature also plays a role in this. In addition, the gel packs with Phase Change Material can be a solution when, for example, fish or meat has to be transported frozen.

Phase Change Material can also be used to cool goods that are not allowed to freeze. For example, you can use it for blood samples. These should be transported as cold as possible, but

should not freeze at all. With gel packs with Phase Change Material you can cool them to 1 degree Celsius, with the added advantage that the gel packs can be cooled in the refrigerator.

For certain medications, these must be transported at an ambient temperature of 15-25 degrees Celsius. The longer such goods are on the road, the higher the quality of the PCM must be. Within PCM, different choices can also be made, so that the gel packs fit exactly to your needs.

The experts at De Ridder Packaging will be happy to talk to you in order to determine whether Phase Change Material is a solution for you. You can always contact them for further advice on the use of the gel packs and for customizing them.

# About De Ridder Packaging

For over fifteen years, De Ridder Packaging has been supplying the best chilled materials and we provide specialized advice on conditioned transport. Since 2014 De Ridder Packaging is part of the Bunzl Group. De Ridder Packaging's product range varies from standard and customized chilled packaging, gel packs, ice packs, absorption mats and EPS boxes to total solutions for chilled and conditioned transport. Everything to ensure that your products arrive at their destination in optimal condition.

De Ridder Packaging is a reliable partner for cooling products and applied packaging materials. We always look for the best solution for the temperature-controlled transport of your products. Thanks to our own production facilities on site, customised solutions can be delivered that are specifically designed for your application. De Ridder Packaging's products are of excellent quality and meet all the requirements of the law.

Do you have any questions, would you like to order or would you like advice? Feel free to contact us using the details below. Our experts will be happy to help you.





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