

---

# HILDERING PACKAGING

TIN CAN SPECIALIST



Round liquid tins packaging

## Round liquid tinplate packaging



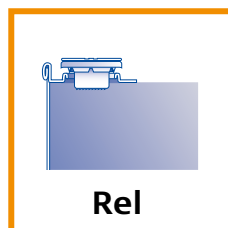
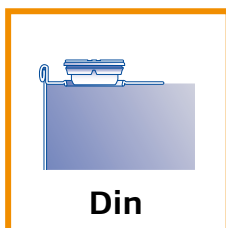
Liquid containers have a filling aperture in the flat top of the container. The tinplate containers are suitable for liquid filling goods with a low viscosity such as solvents, thinners, wood-stains and cleaning products. In addition to this, the packaging is perfectly suited for safe transport and storage of hazardous materials and it often has a UN certificate.

Liquid packaging is available in a round and a rectangular design (see our brochure for rectangular liquid tinplate containers for more information). All round liquid tinplate packaging is of a cylindrical shape, meaning that the body is straight and does not taper inwards. Internally coated liquid containers are not common but are available.

### Assortment

We have a wide range of round liquid containers. Various measures are usually available per capacity. The aperture can vary in diameter. The combination of aperture and the type of cap partially determine the UN certification. Round liquid tinplate packaging is available from 100 ml up to 28 litre. The liquid containers from 2.5 litre (plastic or metal) are fitted with a wire handle in order to make pouring and carrying easier. In various sizes, the bottom is 'necked in', which allows the product to be stacked.

The diameter in combination with the height determines the capacity. Most standard ground sizes are included in the table. Round liquid tinplate packaging is already available in a UN certified version from 250 ml sizes. Round liquid tinplate packaging is most commonly used in the smaller sizes, up to 1 litre, depending on the user market. In the larger sizes, the more efficient stacking of the rectangular shape is usually preferred over the round shape. In the sizes over 20 litre, the round shape becomes more interesting again because of the greater level of robustness that is created by the shape and the thickness of the tinplate.



### Screw top and closings

There are in fact two types of closings: by plastic cap or by metal cap. Plastic caps are available in many varieties and several colours. The caps can be fully made out of plastic, or can be manufactured in combination with an aluminium seal. The aperture can be DIN or REL. The difference is that in the REL the hole is bent outwards. This type of screw top was developed to make it easier to empty the container (the screw top protrudes after all). Currently REL is the most common filling aperture.

Plastic caps can be either of the extractable (bellow seals) type or a screw top variety. Bellow seals disappear inside the container and are pulled out and fitted with a pouring spout. These tops improve the stackability of the liquid containers. Screw tops are often combined with a Child Safety Certificate and are frequently used in consumer markets. Because the screw tops stick out of the flat top, stacking on a pallet is not convenient.

All types of plastic caps can be used to reseal a product after opening. Plastic caps can easily be applied by hand. When filling large numbers of units at high speed, the plastic caps are sometimes applied by machine. We have developed a special cap pusher for medium-large charges in order to improve effectiveness.



### **Metal screw top**

Metal screw tops in particular used for aggressive filling goods which are not suitable for use with plastic closings. The metal screw top is also often used in laboratory settings. The caps are easy to process by hand and are easy to reclose. The round liquid tinplate packaging can also be supplied with a flat metal screw cap in the sizes from 15 litre upwards (TriSure closing).



### **Printing**

The round liquid tinplate packaging can be labelled quite quickly and easily because the shape of the body is cylindrical and there is no handle. By far the most tin containers are printed by offset printing. In larger quantities, offset printing is an excellent solution to allow for optimal communication. The numbers at which this becomes an option are available upon request. Smaller quantities (from 2 pallets) can be printed using digital printing technology. Digital printing of round liquid tinplate containers is currently only available for the 500 ml and 1 litre sizes. You can find more information in our brochure about the Hildering COLORCAN.



### **Protecting outside**

When filling goods are stored and processed in a damp environment, an extra layer of lacquer on the outside of the tinplate packaging is recommended. We can apply a transparent or gold lacquer to the vulnerable parts (bottom and top), so any oxidation can be prevented.

## Markets

Round tinplate packaging is most commonly used to package Car Refinish products, solvents, wood protection products, solubles and liquid chemical products. We have created a packaging line with the Hildering 2-Component locking ring in which round liquid tinplate packaging has an important role as B-component packaging. You can find more information in our Hildering 2-Component intermediate locking ring brochure. When a product has to be coloured, this type of tinplate packaging is less suitable than the tinplate packaging with a removable lid because of the small aperture.

## Specifications

The diameter is the most important determining factor for round liquid tinplate packaging. We have various measurements for a number of capacities, tailored to the requirements of the local market. We indicate the options in the overview below. Many other sizes are available besides the standard capacities. We refer you to our website for the exact measurements.

### **Small round liquid tinplate packaging without wire handle**

- 125 ml - 250 ml - 500 ml - 1 litre

- screw top 24 mm - 32 mm - 42 mm REL or DIN
- plastic caps in different colours and of different designs
- UN certification available from 250 ml
- internal coating possible
- offset printing available (digital printing in preparation for 500 ml and 1 litre)
- TDW sign available
- metal screw top also available upon request

### **The following capacities are most standard in the larger sizes with wire handle**

- 2.5 litre - 3.78 litre - 5 litre - 10 litre

- screw top 42 mm DIN
- plastic caps in different colours and of different designs
- UN certification available
- internal coating possible
- offset printing possible

### **Large sizes with metal wire handle**

- 20 litre - 28 litre

- screw top 57 mm DIN
- plastic caps in different colours and of different designs
- UN certification available
- internal coating possible
- offset printing possible
- stackable

### **Round liquid tinplate packaging with metal screw top**

- 20 litre - 25 litre

- 2 thumb screw top
- airing hole ¾ inch available
- metal (movable) wire handle
- UN certification available
- internal coating possible
- stackable

Because we cannot provide exhaustive information, we refer you to our dynamic search engine on our website where you can find the most recent and most extensive information. [www.hildering.com](http://www.hildering.com) under Packaging finder.