
HILDERING PACKAGING

TIN CAN SPECIALIST



Conical tin can packaging

Conical tin can packaging



Hildering Industrial Packaging has an extensive assortment conical tin can packaging with many different sizes and measures of capacity. Conical indicates the shape that has a larger top diameter than bottom diameter, this ensures easy stacking when empty. The shape is always round.

Some sizes have a rim in the body, the tin can packaging rests on this rim when stacked. It is easy to get the tin of the stack and the rim gives sturdiness to the body.

Conical tin can packaging has a measure of capacity from 2.5 up to 10 litre. Most commonly used (upper) diameters are 160 mm, 180 mm and 230 mm. This combined with the height of the packaging determines the measure of capacity.



Closures

Conical tin can packaging have a removable lid which can be closed manually (with or without a latch ring) or mechanically (with a lid and ring combined in one). The shape of the beaded edge determines the closure of the lid. When the flange is fully beaded the tin can packaging is closed with a mechanically closed lid or a lid with a latch ring.

There are flanges that have such a shape that the lid closes on the inside of the tin can packaging (Conical ring pail, Ringless or Tulip series).



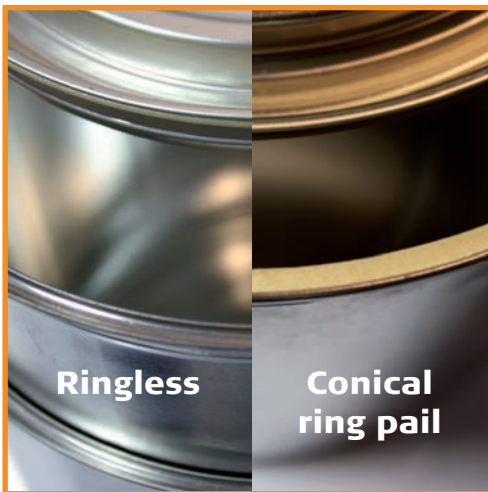
Mechanically closed lids are put in place using a pneumatic closing device. Manually closed lids can be divided in 2 types: closed with or without a latch ring. When closed with a lid and a latch ring the tin can packaging is UN approved. Almost all manually closable tin can packaging without a latch ring do not have a UN certificate. Only when a special adhesive compound is applied to the top of the packaging a UN approval can be obtained. This series is called Conical ring pail. An additional aperture can be placed in the lid.



Buckets

When a conical tin can packaging has a larger diameter (upper diameter > 180 mm) it is called a bucket. Also the thickness of the tinplate is slightly less and the beaded flange less thick.

Conical buckets are often closed with a lid and latch ring. When dealing with larger quantities it is possible to close the lids mechanically. The lid and the latch ring are a unity and are UN approved. The buckets are standard, not approved, or UN Y (1.2) approved. Recently we added the higher UN approval: UN Y1.6 to this range. The measures of capacity are 5 to 14 litre. Because of the wide diameter it is possible to use paint rollers and work straight from the bucket. Another advantage is that the conical buckets can be linked with a lower 2 component tin can packaging. Together they form a set (see our brochure 2-K Tin can packaging). The buckets that are closed with just a lid (no latch ring) do not have a UN approval for transporting hazardous materials.



Conical ring pail

A special conical tin can packaging is the range Conical ring pail: a conical paint tin with just a (adhesive) lid and a UN approval. This packaging can be closed without the need of a closing machine or a latch ring and obtain the UN approval. Because of the special compound in the ring and in the rivet of the tin the lid closes very well and it remains easy to open and close. The shape of the tin, slightly conical, makes labelling possible and because of the recessed lid the tin can be stacked stably.

Ringless

The concept of the Conical ring pail was so successful that a range without UN approval has been developed: Ringless. The ringless tin can packaging does not contain the adhesive compound. This has been compensated by altering the shape of the beaded edge somewhat. The advantage of easy labelling remains.

The lid is concave providing stability when the filled tin can packaging is stacked on a pallet. Because of the larger measures of capacity the conical tin can packaging always has a handle to facilitate lifting.

Emptying

The big advantage of conical tin can packaging is that it is easy to fully empty the tin. The filling good can leave the tin can packaging perfectly. The end-user can work more square yards with your filling goods and there is less residue in the empty tin can packaging. This reduces the chemical waste to a minimum, an environmentally friendly solution. Also for quick emptying of the packaging, the conical shape is very suitable.

Coating

Conical tin can packaging is standard available in both inner plain or inner coated. An epoxy phenol or gold lacquer is also possible.

Market

UN certification makes conical tin can packaging ideally suited for transporting paints and lacquers that have to meet the Roads Transport Hazardous Goods Act. Industrial paints, hardeners, stains, coatings and chemicals are often filled in these UN approved tin can packaging. For the tinting machine the easy opening and closing of the packaging is mandatory. Conical tin can packaging with a mechanically closed lid can only be used in the tinting machine when there is a filling aperture in the lid.



Printing

The vast majority of tin can packaging is printed through offset printing. This technique has minimal printing orders. Printing smaller amounts (already from 2 pallets onwards) is possible using digital printing technique. At the moment digital printing of conical tin can packaging is only possible for those with a beaded flange. Further information you can find in our brochure COLORCAN.

Specifications

Conical - beaded flange

- inner coating possible
- with handle
- offset printing – in the near future digital printing
- UN Y 1.2 approval + UN Y1.4
- closing mechanically or manually
- measures of capacity 2,5 ltr, 4 ltr, 5 ltr
- upper diameter 160 mm + 180 mm

Ringless

- inner coating, epoxy phenol or gold lacquer possible
- with handle
- offset printing
- UN approval – none
- closure – ringless lid manually or pressure down plate
- measures of capacity 2,5 ltr, 3 ltr, 4 ltr, 5 ltr, 6 ltr
- upper diameter 169 mm + 200 mm

Conical ring pail

- inner coating, epoxy phenol or gold lacquer possible
- with handle
- offset printing
- UN Y 1,2 approval
- closing with adhesive compound or pressure down plate
- measures of capacity 2,5 ltr, 3 ltr, 4 ltr, 5 ltr, 6 ltr
- upper diameter 169 mm + 200 mm

Buckets

- inner coating, epoxy phenol or gold lacquer possible
- with handle
- offset printing
- UN Y 1.2 approval + UN Y1.6
- closing mechanically or manually
- measures of capacity 5 ltr, 6 ltr, 7 ltr, 10 ltr, 12 ltr, 14 ltr
- upper diameter 230 mm

We refer you to our dynamic website www.hildering.com. Here you can find the most recent and extensive information on the range of tin can packaging and related products available from Hildering Industrial Packaging.