Stainless Steel Bottle with Bamboo Lid and White Varnish TFL 040

Declaration of Conformity

100% RECYCLABLE

Dimensions

Areas for Finishing

Detailed Views

Finishing*

part	digital printing	laser engraving	embossing	sticker
lid	✓	✓ max: ⌀ 50 mm	✗	✗
body	✗	✓ max: 70x130 mm	✗	✓
bottom	✗	✓	✗	✗

✗ not available for this type of tin ✓ available for this type of tin

Key Facts

item number	TFL 040
dimensions (mm)	73 × 212
pieces per unit	20

* The print-technological feasibility only can be evaluated after the exact verication of layout and design.

Special Productions

Full-face offset prints, additional viewing windows, height adjustments, hinges, or other specific technical modifications can be realized as part of a special production, typically starting from a minimum quantity of 2,000 pieces. Please contact us for individual offers and delivery arrangements.

Declaration of Conformity

We hereby confirm that our products comply with the requirements of **EU Regulation 2023/988**. They have been designed and manufactured in accordance with applicable safety regulations to ensure safe use by the end consumer.

Product Safety and Risk Assessment

in accordance with EU Regulation 2023/988. The following safety aspects have been identified, and appropriate measures have been defined:

1. Physical Risks by Product Category

Tinplate Boxes

- When used properly, no sharp edges or fractures occur. Under heavy strain, dents may form, but they do not present a significant risk of injury.
- Hinged lids may become detached, posing a risk of injury from the hinge. Careful opening and closing are recommended.
- Tinplate is susceptible to corrosion (rust formation), especially in high humidity. Dry storage is recommended.

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Clasp Closures on Lunchboxes, Coffee Cans, and Pocket Ashtrays

- Fastened with rivets or a small tab. If these come loose, small parts may pose a choking hazard, especially for children.
- The pocket ashtray contains a small spring that may come loose and fall out.
- Regular checks of fastenings are recommended to minimize safety risks.

Stainless Steel Cans

- Resistant to corrosion and mechanical impact.
- No significant risk of injury compared to tinplate cans.

Tins with Bamboo or Beechwood Lids

- Wooden lids may splinter or crack if mishandled.
- Beechwood lids are sensitive to moisture and may warp, affecting the fit.
- Bamboo is more resistant to moisture than beechwood but can swell over time with prolonged water exposure, affecting the fit.
- Cleaning should be done only with a slightly damp cloth; not dishwasher-safe. Regular treatment with plant-based oil can improve the durability and resistance of beechwood lids.
- Bamboo may develop hairline cracks if mishandled, which can impact hygiene. Dry storage is recommended.

Aluminum Cans

- Aluminum cans are robust and shatterproof but may form dents under extreme pressure.
- Protective coatings prevent chemical reactions with food.
- Highly acidic or alkaline foods (e.g., vinegar, citrus fruits) may gradually damage the protective layer. Short-term storage is recommended.

2. Thermal Safety

- Stainless steel and aluminum cans can become extremely hot at high temperatures, posing a burn hazard.
- Wooden lids (bamboo/beech) are flammable and should not come into contact with open flames or heat sources.

3. Electrical Conductivity and Microwave Prohibition

- All metal packaging, including tinplate, stainless steel, and aluminum cans, is electrically conductive. They should not be placed near electrical sources or exposed contacts to avoid short circuits or electric shocks.
- Metal packaging must not be used in microwaves as it can cause sparking, electrical discharges, and damage to the microwave. This poses a significant fire and safety risk.

4. Chemical Safety

- Our products comply with EU Regulation (EC) No. 1935/2004 on chemical safety.
- They do not contain harmful substances such as PFAS, BFDGE, BADGE, or NOGE.
- The products have been tested for heavy metals, phthalates, and polycyclic aromatic hydrocarbons (PAHs) and remain well below legal limits.

Further details on chemical tests are documented in the Declaration of Harmlessness.

5. Behavior in Case of Damage & Disposal

- Tinplate and aluminum cans may develop cracks or sharp edges if mishandled.
- Bamboo lids should be replaced if they splinter or crack to avoid injury.
- Proper disposal in designated recycling streams is recommended.

6. Traceability and Recall Procedure

- All packaging cartons include a production code indicating the manufacturing year and month.
- In case of safety issues, we offer replacement or refund.
- Consumers are informed through various channels (email, website).

7. Continuous Safety Inspection

We conduct regular safety and material inspections, especially when suppliers or materials change. New legal requirements are continuously taken into account.

8. General Notice

Our metal packaging is not a toy. Proper handling is required to avoid risks such as choking hazards or injuries.

Proper use is the responsibility of the end consumer. Liability for improper use is excluded.

Gotha, January 2025

Material Composition Stainless Steel Bottles

Stainless Steel 304 / 1.4301

Component	CAS Number	EC Number	Weight-%
Iron (Fe)	7439-89-6	231-096-4	71.85%
Chromium (Cr)	7440-47-3	231-157-5	18.05%
Nickel (Ni)	7440-02-0	231-111-4	8.01%
Manganese (Mn)	7439-96-5	231-105-1	1.07%
Silicon (Si)	7440-21-3	231-130-8	0.44%
Cobalt (Co)	7440-48-4	231-158-0	0.24%
Titanium (Ti)	7440-32-6	231-142-3	0.11%
Copper (Cu)	7440-50-8	231-159-6	0.07%
Nitrogen (N)	7727-37-9	231-783-9	0.0457%
Carbon (C)	7440-44-0	231-153-3	0.041%
Phosphorus (P)	7723-14-0	231-768-7	0.0288%
Sulfur (S)	7704-34-9	231-722-6	0.0035%
Tin (Sn)	7440-31-5	231-141-8	0.0028%

Oil for Beech Wood Lids

Component	CAS Number	EC Number	Weight-%
Refined Linseed Oil	8001-26-1	232-278-6	100%

Stainless Steel 304 Roll for Swing Closure

Component	CAS Number	EC Number	Weight-%
Iron (Fe)	7439-89-6	231-096-4	71,5967%
Chromium (Cr)	7440-47-3	231-157-5	18,0121%
Nickel (Ni)	7440-02-0	231-111-4	8,0747%
Manganese (Mn)	7439-96-5	231-105-1	1,0709%
Silicon (Si)	7440-21-3	231-130-8	0,4191%
Copper (Cu)	7440-50-8	231-159-6	0,2811%
Cobalt (Co)	7440-48-4	231-158-0	0,2323%
Vanadium (V)	7440-62-2	231-171-1	0,0947%
Molybdenum (Mo)	7439-98-7	231-107-2	0,0637%
Nitrogen (N)	7727-37-9	231-783-9	0,0561%
Phosphorus (P)	7723-14-0	231-768-7	0,0323%
Carbon (C)	7440-44-0	231-153-3	0,0462%
Tin (Sn)	7440-31-5	231-141-8	0,0046%
Sulfur (S)	7704-34-9	231-722-6	0,0041%
Aluminum (Al)	7429-90-5	231-072-3	0,0041%

Stainless Steel Wire for Swing Closure 304HC2 / 1.4303

Component	CAS Number	EC Number	Weight-%
Iron (Fe)	7439-89-6	231-096-4	70,509%
Sulfur (S)	7704-34-9	231-722-6	0.002%
Molybdenum (Mo)	7439-98-7	231-107-2	0.020%
Carbon (C)	7440-44-0	231-153-3	0.026%
Phosphorus (P)	7723-14-0	231-768-7	0.033%
Silicon (Si)	7440-21-3	231-130-8	0.230%
Manganese (Mn)	7439-96-5	231-105-1	0.890%
Chromium (Cr)	7440-47-3	231-157-5	18.19%
Copper (Cu)	7440-50-8	231-159-6	2.07%
Nickel (Ni)	7440-02-0	231-111-4	8.03%

Bamboo Varnish

Component	CAS Number	EC Number	Weight-%
Acrylic Polyurethane Emulsion	51852-81-4	—	60-95%
Dipropylene Glycol Butyl Ether	29911-28-2	—	2-5%
Defoamer	68611-44-9	—	0,1-0,2%
Thickener	526-95-4	—	0,5-1,5%
Sanding Aid	557-05-1	—	0-5%
Biocide (Bioban 586)	55965-84-9 / 52-51-7	—	0-0,07%
Water	7732-18-5	—	0-15%

Bamboo Adhesive

Component	CAS Number	EC Number	Weight-%
Ethylene-Vinyl Acetate Copolymer (EVA)	24937-78-8	—	40-50%
Synthetic Latex	NA	—	10-40%
High Molecular Surfactant	57534-41-5	—	<1%
Macromolecular Carbohydrate	9005-25-8	—	5-10%

Powder Coating white

Componente	CAS Number	EC Number	Weight-%
Epoxy Resin	25068-38-6	500-033-5	40-50%
Polyester Resin	25038-59-9	500-059-2	20-30%
Titanium Dioxide (white)	13463-67-7	236-675-5	15-25%
Fillers (e.g. kaolin)	1332-58-7	310-194-1	5-10%
Hardener / Crosslinker	28064-14-4	248-666-3	2-5%
Additives (superplasticizers, UV stabilizers)	—	—	1-3%

Silicone Sealing Rings

Component	CAS Number	EC Number	Weight-%
Siloxanes and Silicones	68083-18-1	—	69-73%
Silicon dioxide	7631-86-9	231-545-4	23-27%
Dimethyl siloxane, hydroxy-terminated	70131-67-8	—	3-5%

Aluminum Rivets

Component	CAS Number	EC Number	Weight-%
Aluminum (Al)	7429-90-5	231-072-3	99.6%
Iron (Fe)	—	—	0.35%
Silicon (Si)	—	—	0.25%
Zinc (Zn)	—	—	0.05%
Copper (Cu)	—	—	0.05%
Titanium (Ti)	—	—	0.03%
Manganese (Mn)	—	—	0.03%
Magnesium (Mg)	—	—	0.03%