

We live packaging.

HUBER

PACKAGING GROUP



HAZARDOUS
GOODS ■

Safe tinplate
packaging

SAFETY. ■

A question of materials.

The ideal material characteristics of tinfoil form the basis for high quality packaging. A wide spectrum of inside lacquer coatings, film-laminations and powder-coated welded seams ensures that a similarly wide

range of chemical products can be carried safely. With our enormous technical expertise and specialist competence, we can turn these materials into the safe and secure packaging.

- particularly stable, unbreakable
- solvent resistant
- ideal for recycling
- temperature-resistant
- withstands internal pressure
- impervious to light, gas and diffusion

Safe in transit.

When transported internationally, your goods are exposed to a large number of stresses. Our extensive range of reliable, design-certified tinfoil packaging combined with our competent, specialist advice provides you with the best possible protection for the transport and storage of your goods. With around

100 official approval certificates, our product range covers almost every conceivable requirement arising in the international goods trade: road and rail to RID/ADR, ocean transport in accordance with the IMDG Code with UN approvals and by air in compliance with IATA regulations.

Our specialists will be pleased to offer you individual advice. We are also happy to visit you at your premises. Send your hazardous goods safely on their way – with packaging for hazardous goods made by the HUBER Packaging Group.



Pails and hobbocks:

For viscous contents, viscosity > 200 mm²/s (0A2)

Volume litres	Ø mm	Height mm	Maximum gross weight kg, PG II	CR	Closures SPM	L-ring
1.7–3.8	163	100–203	5	■	■	
2.5–5	163/156	145–270	6	■	■	
4–6	185/173	185–287	9	■	■	
6–12	230/217	175–340	17	■	■	■
7–13	242/230	188–333	17	■	■	
12–20	280/262	225–400	37	■		
15–20	280/262	269–400	37		■	
20–32	328/312	284–454	41	■		
25–30	328/312	353–410	41		■	



With UN approval for liquid contents (1A2)

Volume litres	Ø mm	Height mm	Hydraulic test pressure kPa	CR	Closures SPM	L-ring	TOP-EXPAND®
0.25–1	99	51–151	Y 100		■		
2.5–5	163/156	145–270	Y 100	■	■	■	
4–6	185/173	185–287	Y 100	■	■		
6–12	230/217	175–340	Y 100	■		■	■
7–13	242/230	188–372	Y 100	■			
11.5–20	280/262	225–425	Y 100	■			■
20–32	328/312	284–454	Y 100	■			
20–30	328/312	284–425	Y 100				■

With thicker tinsplate and UN approval (1A2)

Volume litres	Ø mm	Height mm	Hydraulic test pressure kPa	Closures CR	Density in g/cm ³	
					PG II	PG III
12–20	280/262	255–400	Y 1.8/100	■	1.8	2.7
20–30	328/312	284–425	Y 1.8/100	■	1.8	2.7
20–30	328/312	284–425	Y 1.6/100	■	1.6	2.4
20–30	328/312	284–425	Y 100	■	1.2	1.8

CR = Clamping ring, SPM = SPM Strip sealing system, PG = Packaging group

RID/ADR and UN.



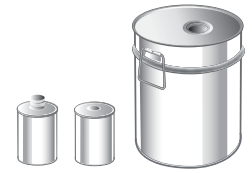
PACKAGING FOR HAZARDOUS GOODS FOR ALL PACKAGING GROUPS (I, II, III):

Our tested, officially approved packaging for hazardous goods is especially manufactured for the transportation of the following hazardous contents:

- Class 3 – inflammable, liquid materials
- Class 6.1 – poisonous materials
- Class 8 – corrosive materials
- Class 9 – various dangerous materials

Funnel bottles, flat-top bottles and flat-top drums (1A1):

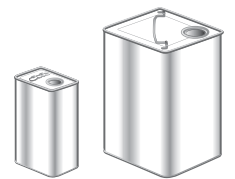
Volume litres	Ø mm	Height mm	Hydr. test pressure kPa	PG UN (1A1)	Closures			Closure sizes
					TSC	PC	MC	
FUNNEL BOTTLES								
0.25	56	116	300	I-III	■			30 mm, sealing insert/inner seal
0.5	73	140	250	I-III	■			30 mm, sealing insert/inner seal
0.5-1	79	90-224	250	I-III	■			30 mm, sealing insert/inner seal
0.5-1.3	99	82-200	250	I-III	■			30 mm, sealing insert/inner seal
FLAT-TOP BOTTLES								
0.25	56	120	300	I-III		■		24 mm/32 mm
0.5	73	140	250	I-III		■		24 mm/32 mm/42 mm
0.5-1	79	90-224	250	I-III		■		24 mm/32 mm/42 mm
1.0	90	177	200	II+III		■		24 mm/32 mm
0.5-1.3	99	82-200	250	I-III		■		24 mm/32 mm/42 mm
FLAT-TOP DRUMS								
2.5-6	163/156	179-330	120	II+III		■		32 mm/42 mm/57 mm
5-14	222/230	170-400	300	I-III			■	3/4" and 2", Spout 60 mm
6-13	230/225	176-371	120	II+III	■	■		BV 60 mm, KV 42 mm/57 mm
24-30	328/312	365-427	120	II+III		■		57 mm



Canister (3A1):

Volume litres	Ø mm	Height mm	Hydr. test pressure kPa	PG UN (1A1)	Closures			Closure sizes
					TSC	PC	FO	
0.5-1	90/73	94-200	150	II+III	■	■		TSC 30 mm, PC 24 mm/32 mm/42 mm
1	106/76	132+155	250	I-III	■	■		TSC 30 mm, PC 32 mm/42 mm
2.5-6	164/125	162-350	170	II+III	■	■	■	TSC 60 mm, PC 42 mm/57 mm, FO 87 mm
5-12	231/151	178-400	140	II+III	■	■	■	TSC 60 mm, PC 42 mm/57 mm, FO 87 mm
15-20	258/232	365-400	110	II+III		■		PC 24 mm/57 mm
25-30	292/258	310-481	110	II+III	■	■	■	TSC 60, PC 42/57, FO 140, Spout 60 mm

PG = Packaging group, TSC = Tin screw top, PC = Plastic closure, FO = Filler opening with lid and clinch ring, MC = Metal safety closure



Purpose made.

Our range comprises stable round containers, pallet-ready square containers and conical, multi-purpose lid containers. Funnel bottles, flat-top bottles and flat-top drums (1A1), plus canisters (3A1), pails and hobboscks (0A2/1A2) provide for every requirement.

Even for the most demanding transportation requirements your products' safety is assured at all times. We can also offer design-certified two-component packaging.



Tested quality.

International dangerous goods regulations demand comprehensive type-testing before official approval is awarded by the Bundesanstalt für Materialprüfung (BAM, German Materials Testing Office).

- drop tests from up to 1.80 m
- stacking pressure tests
- leakage tests
- hydraulic interior pressure tests

Once the individual permits have been awarded, regular official in-house and external monitoring ensures that the reliability of packaging for hazardous goods is constantly tested and the results documented.

This guarantees that at all times each and every aspect of the packaging meets the high requirements for hazardous goods packaging.

With comprehensive quality testing of the raw materials in our own laboratory and constant production controls, we ensure that our hazardous goods packaging meets every official requirement.

- technical testing of all packaging components in our own laboratories
- content compatibility tests

The mark of safety.

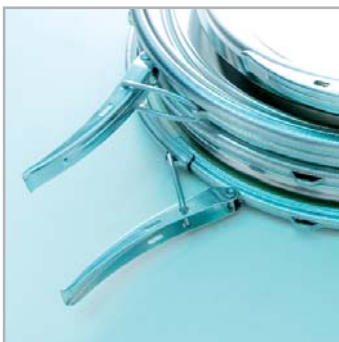


E.g. embossing on a hobcock with UN approval:
UN1A2/Y100/07/D/BAM 4123 KHV

All tested metal packaging is individually marked with its own embossing. In this way, we guarantee adherence to the stated performance data. The embossing provides information about:

- type of approval
- type of container
- packaging group
- hydraulic test pressure or permissible total weight
- year of manufacture
- country and place of approval
- approval number
- official manufacturer's ID

Safe closure.



Reliable, user-friendly lids and closures make it easy to use the contents correctly. These include numerous closures that are available in child-safe versions and/or

as optimal extraction closures, providing problem-free recycling of the empty containers. For rational and safe closure, we offer our own systems for sale or for lease.

Our closing systems

- **TOP-EXPAND®**
An innovative system for automatic closure of clamping ring containers.
- **SPM**
The proven strip sealing system for lid containers.
- **L-Ring**
Preformed, closed closure rings.

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INDUSTRIAL

CHEMICAL

PAINT

FOOD

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