

Liquor Bottle Caps

Liquor bottle caps refers to the caps used to seal spirits (such as whisky, vodka, rum, white wine, etc.), which usually combine the functions of sealing, anti-counterfeiting and brand display. The material is mainly aluminum (including screw cap, crown cap, etc.), and some high-end spirits may be combined with cork or ceramic caps.

Liquor bottle caps structure consist of an aluminum housing and an internal sealing layer such as a food-grade plastic or silicone gasket. Aluminum is lightweight, corrosion-resistant and easy to shape, allowing for precise threading to ensure a tight seal. Some high-end liquor caps also incorporate tamper-evident rings or reusable silicone membranes (e.g. screw caps adapted to the Coravin system, which can be stored for up to 3 months after opening).

Liquor Bottle Caps Sizes:

Size	Data	Description	
Diameter	24mm	Suitable for small neck design, mostly in traditional spirits bottles (e.g some whisky, vodka)	
	24mm	Widely used in modern spirits bottles, adapted to standard bottle tops, providing better sealing and anti-theft properties.	
Height	Typically 18-60mm	Taller than wine bottle caps for stronger seals	
Thickness	Aluminum thickness	Some caps with high sealing requirements may be thicker, taking into account both strength and	
	0.20-0.26mm	processability.	

Design of Liquor Bottle Caps:

- Surface treatment

Enhanced anti-counterfeiting and aesthetics through embossing, hot stamping, silk-screening and other techniques .

- Anti-theft design

Twist-off/open structure: the connecting point line breaks after the cap is opened, displaying the anti-theft symbol and preventing secondary encapsulation.

Destructive inner liner: the inner cushion is made of special dripping material, which cannot be recovered after opening to ensure the sealing.

- Sealing structure

Radial fit tolerance: the gap between the inner diameter of the aluminum cap and the outer diameter of the bottle mouth is controlled at 0.3-0.4mm to avoid sealing problems caused by too loose or too tight.



Axial Height Tolerance: Ensure that the cap fits tightly in the height direction of the bottle mouth to prevent leakage.



Finish of Liquor Bottle Caps:

Parameter	Specification
Sizing	Roller Coating Vinyl base size
Inside gold	Roller Coating Full lacquer gold
Outside printed as per customer requirement	Flaxo print
Varnish	Roller Coating PP cap Transparent Varnish

Decoration	
Тор	lithographic printing / embossing / UV printing / hot foil / silk screen
Side	four colors offset printing / embossing / hot foil / silk screen printing

Typical Application of Liquor Bottle Caps:

Liquor Category	Typical Application Scenarios	Cap Features
Whisky	Single malt whisky, blended whisky, cask	Mostly with 28mm diameter cap, matte or metallic surface, with hot
	strength whisky, etc.	stamping/laser engraving, reflecting high-end positioning.
Vodka	Neutral liquor, flavored vodkas (e.g.	Sealability is important, commonly 24mm or 28mm caps, some
	lemon, vanilla)	brands use a transparent window to show the purity of the liquor.
Rum	White Rum, Gold Rum, Black Rum	Tropical style designs (e.g. embossed palm leaf pattern), aluminum
		cap liners need to withstand high humidity environments.
Tequila	Silver Label Tequila, Aged Tequila (Añejo)	Commonly used with 28mm caps, some Mexican brands have
		colored aluminum caps with traditional ornamentation.
Brandy/Cognac	VSOP, XO grade Cognac	High-end market prefers gold/rose gold plated aluminum caps with
		cork assisted sealing (double seal construction).
Liqueurs	Sweet liquors (e.g. Baileys, Cointreau)	Small diameter bottles (24mm cap mostly), the liner needs to be
		resistant to sugar corrosion to prevent sticking.
Other Spirits	Gin, Vermouth, Chinese White Wine (some	The white wine sector is gradually replacing the traditional plastic
	high-end series)	cap, emphasizing anti-counterfeiting (e.g. one cap, one code).



Core Advantages of Liquor Bottle Caps:

- Sealing performance

Aluminum screw cap: precision threaded design isolates oxygen and prevents evaporation or oxidation of liquor (e.g. whisky for long term storage).

Lining material: Silicone or PVC gasket to enhance sealing, suitable for high alcohol concentration liquids (white wine above 60% vol).

- Anti-counterfeiting and security

Anti-theft ring design: cap body breaks after opening the bottle to prevent secondary filling. Laser engraving/QR code: integrated brand logo or traceability information to combat counterfeit wine (e.g. Moutai anticounterfeiting cap).

- Brand display and customization

Surface technology: can be plated, painted, embossed or printed with logos (e.g. personalized caps for Absolut Vodka). Shaped design: customized special shapes (e.g. hexagonal, embossed pattern) to enhance the high-end feeling.

- Environmental protection and cost

Aluminum is recyclable, more resistant to moisture and insects than cork, and suitable for mass production. The overall cost is lower than the combination of cork + tin foil closure (especially for mid-range spirits).

- Bottle opening experience

Screw caps are tool-less and ready to drink, suitable for ready-to-drink consumption scenarios (e.g. pre-mixed cocktails).

Some high-end caps are designed to be re-sealable (e.g. screw caps with silicone plugs), which prolongs the preservation time after opening.

Packaging of Aluminum Liquor Caps:

Parameter	Specification
Quantity	According to the caps sizes
Packing box	5 ply or 7 ply Body Corrugated Boxes according to the requirement of customer.
Packing – Inner	Packed in sealed Polyethylene bags
Packing – External	Gum tape and strapped with PVC straps
Optional	Palletize as per Customer requirement.