

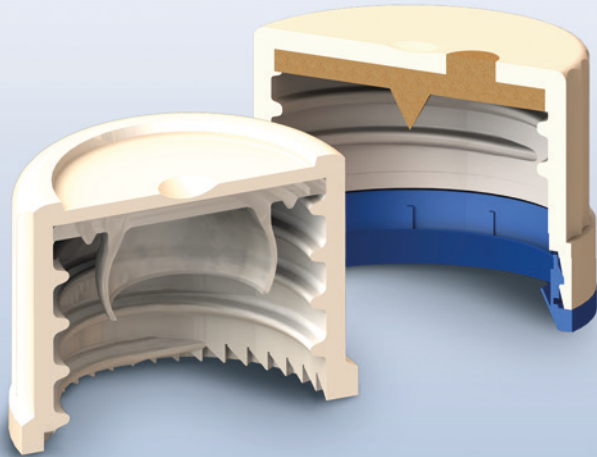


PACKAGING SINCE 1947



# 2K|3K Cap<sup>®</sup>

Multicomponent Caps

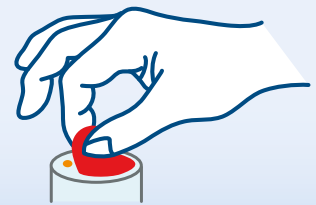


The innovative, patented three component caps for pharmaceutical and diagnostic industries are a revolution on the packaging market.

The autoclavable cap can be punctured with an injection needle several times and includes a lid protecting the puncturable zone against contamination and ensuring sterility. Whether two component or multicomponent is required, all caps are available in various types. As a cap with a membrane-sealed hole which will accommodate multiple punctures with an injection needle and ensure reliable pipetting of various substances, or as a closed cap which can show tamper-evidence or be child-resistant. Due to the injected liner, the caps feature the following advantages:

- Highest sterilization guarantee because there is no cavity or gap behind the liner
- No moisture can collect behind the liner after autoclaving
- No impenetrable areas which are not sterilizable
- Highest autoclaving guarantee because the liner is bonded to the cap even if the bottle is under vacuum
- No adhesives
- Several food and medical approved versions (up to USP Class VI) are obtainable

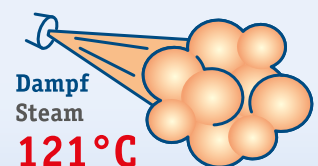
Sterile cover



Tight



Autoclavable





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# Packaging

Individual adapted solutions



**Our experience of over 60 years has not only been restricted to the development and production of caps and closures.**

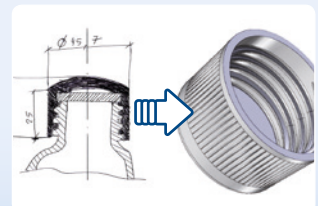
In addition, further packaging, medical devices and technical products belong to our services. Unconventional requirements which demand the full spectrum of our collected knowledge concerning design, plastics and production technique are an exciting challenge for us. A solution for a packing problem is not always simply a more, or less, elaborate closure or cap. Often the entire concept requires a comprehensive analysis to reach an optimal solution.

Our creativity and core competencies in product design and the selection of special plastics enable us to create reliable, unique solutions.

**For example:**

- Special injection molded bottles for clinical diagnostics
- Protective covers for glass bottles
- Syringe adapters
- Valves and holders for analytical test strips
- Material efficient caps
- Dosing aids

**Product development**



**Unusual solutions**



**Material experts**



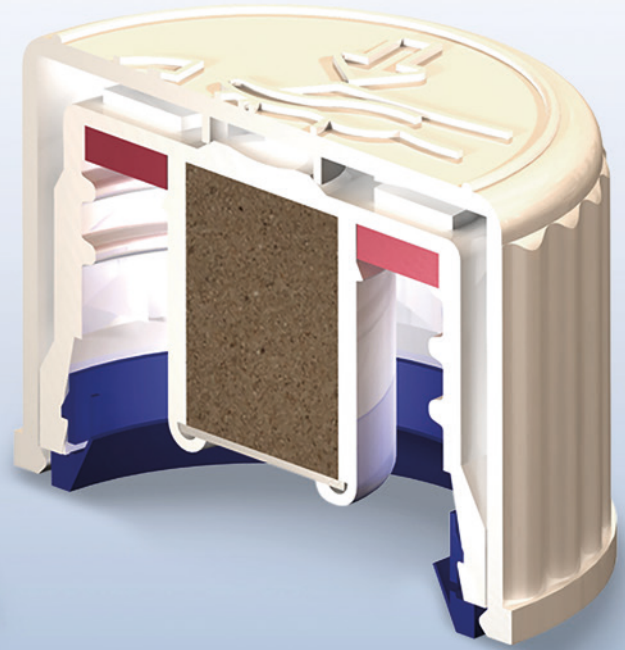


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# SmartCap

Effective Protection for your Product



**Suitable function for every application. Our production focuses on elaborate and sophisticated closures.**

The expertise required for the production of special closures is applied to our entire product range, from the standard assortment to the customized designs. Tamper-evident, child resistant and desiccant functions can be combined.

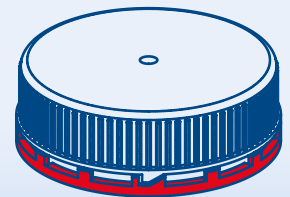
Products can be made more user-friendly through small adjustments to the cap. For example, depending on the filling material, furnishing a closure with brush, spoon, spatula, pipette, dispensing insert, dropper, stopper or pouring ring will enhance the practicality and comfort of product use. The sealing disks are technically and economically coordinated to the application and generally undergo automatic assemblage. Our extensive experience in this area guarantees optimal and secure adhesion of the assembled parts. We take full responsibility.

- Hole top closures
- Measuring cups and threaded drinking cups
- Brush and spoon closures

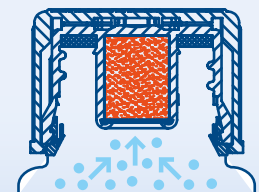
**Child resistant**



**Tamper evident**



**Desiccant**







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# LabCap®

Made to be tough

**Chemical analysis and laboratories require closures which can stand up to special conditions, whether those be extreme temperatures, aggressive chemicals or pressure.**

The demands placed on the closure must equally provide content material protection, accident prevention and environmental protection. Careful and thorough planning is imperative to ensure that every potential weak spot has been considered and eliminated during the conceptualization stage, resulting in high performance, top quality and cost efficient products.

Even in the case of critical filling material, such as hazardous goods, our certified quality standards guarantee safe and secure filling, transport, storage and usage.

- Special sealing disks
- Degassing closures
- Clean room production

**Chemical resistance**



**Highest purity**



**Heat resistance**





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# EasyCap

Caps from our Modular System

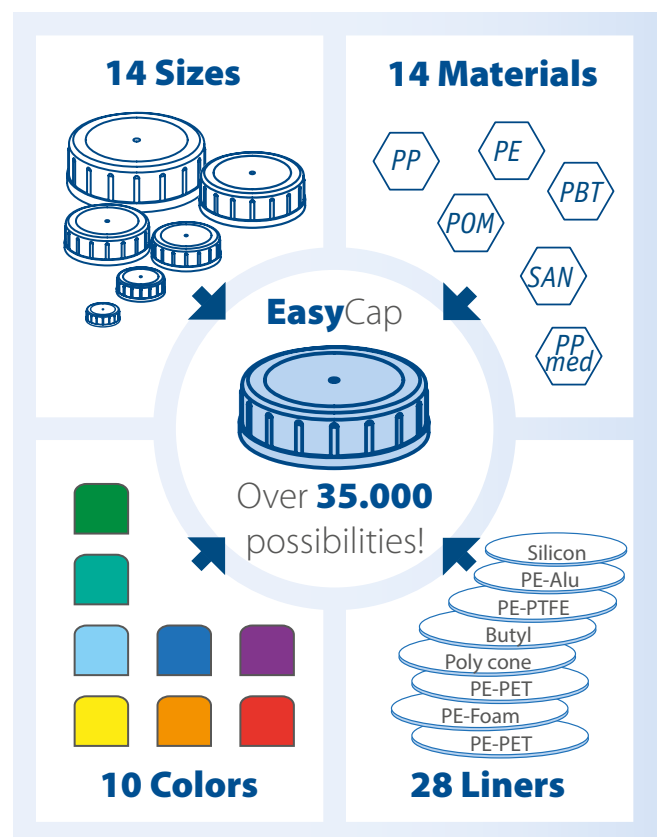


The standard product range consists of a customer friendly building block system. Customers can choose standard forms from a portfolio which has been growing for over 60 years.

Choice of color and material follows, and then, depending on the closure and the intended use, the selection of the appropriate sealing inlay. KISICO does not focus solely on production; consultation is a service well-appreciated by customers as well. Questions arise, such as, "Which plastic is best for the intended chemical filling?" or "Which sealing inlay can be autoclaved at 121°C?" and so on. The experts at KISICO have the answers.

In combination with our sealing disks, we can deliver over 60,000 different closures. One particular advantage of choosing a closure from our standard product range is the short delivery time. We consistently have a multitude of caps on stock for short-term needs.

- Possible solutions for individual needs
- Expert advice





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# HologramCap

Unrivalled Protection For Your Products



**KISICO presents the hologram topped cap. This innovative design features a hologram that is fully integrated in the production process of the cap, thus requiring no additives, inks, or labels.**

The style of the hologram can be individualized according to customer needs. The technology can be applied to any existing cap.

Unique breakthroughs in nanotechnology enable KISICO to offer customers unrivalled protection against counterfeiting. In combination with the tamper evident ring, the HologramCap offers the most advanced protection for consumer and brand owner on the market. KISICO customers will be most exceptionally prepared in the battle against counterfeit products.

This solution is not only especially interesting for the pharmaceutical industry and others who package high-priced products. It can also be used to differentiate between products, highlighting their individual qualities.

**Counterfeit protection**



**Customizable**



**No inks or labels**







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# NFCap

The cover with savvy



**The revolutionary NFCap permits contact-less communication with every NFC-enabled smartphone.**

Practically every modern smartphone has an NFC reader. For those without the NFC feature or for phones using iOS, there are suitable add-ons available.

NFC technology can be integrated into most of the KISICO standard products so no further costs for new injection molding tools or tool adjustments arise. Since the chip is not visible from the outside, the caps retain their design. The chip never comes in contact with the bottle contents, representing an additional advantage especially for users in the food, chemical or pharmaceutical industries.

A wide array of information can be stored on the chip. Relevant applications can be used to verify the authenticity of the product. In addition, technology-savvy audiences will use this communication opportunity between product cap and smartphone to access information stored on the chip such as links to websites, product specifications or other specifically developed apps.

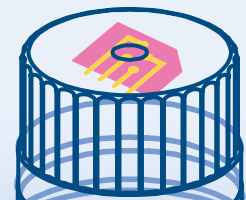
**Increases product safety**



**Applicable for all standard products**



**Tamper-free and invisible from the outside**





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# TPE Stopper

Maximum purity, minimum permeability



**Our TPE stopper is the future in lyophilization stoppers, the cutting edge solution to conventional rubber materials.**

The sophisticated injection molding technology ensures cost effectiveness and highest quality standards. Clean-room production guarantees particle-free product purity, making post production washing processes obsolete. In-line camera-supported quality control checks for each individual stopper's adherence to product specifications.

TPE is latex-free and does not require accelerators, cross linking agents, or reaction promoters, which all could have a negative impact on substances they come in contact with. Only medically approved raw materials tested for biocompatibility are used in stopper production. They comply with USP class VI. These materials express excellent sterilization properties for gamma irradiation and steam or ethylene oxide sterilization.

Materials and colorants can be tailored to customer needs. As all TPE stoppers are recyclable and, due to less production waste, are more sustainable than those made of other materials.

Highest purity



Low extractables and leachables concentration

Cleanroom  
ISO class 7

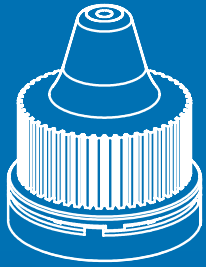


Customizable

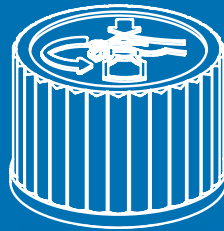




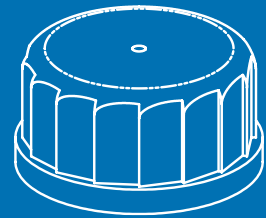
# Industries



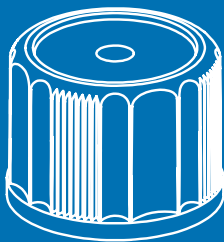
Pharmaceutics



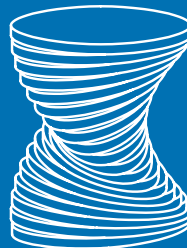
Chemistry



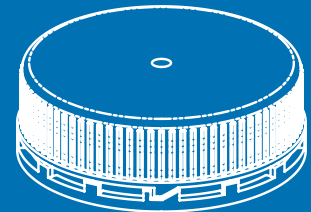
Analytics & Laboratory



Diagnostics



Cosmetics



Foods



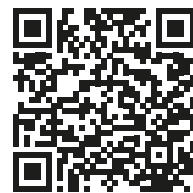
**KISICO Verpackungstechnik**

Kirchner, Simon & Co. GmbH

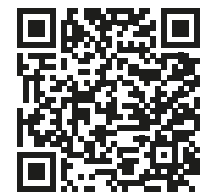
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