

SENSOPLAST®

we care.



**Interactive
PDF**
(click to reveal)

Reliable
SCREW CAPS
AND DOSING SYSTEMS

100% MADE IN
WESTERWALD



FROM THE LAND OF POETS, THINKERS AND BREWERS

100 % MADE IN
WESTERWALD

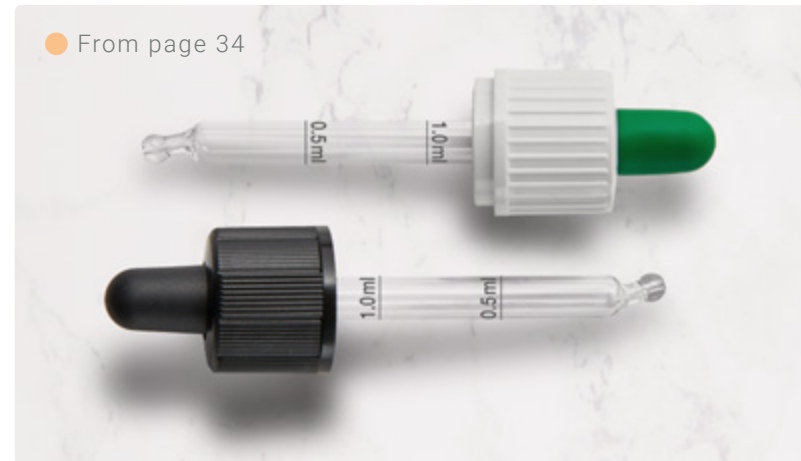
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We are **FRIENDS**

Many of our customers have not only been our partners for many years of excellent business relationships but have also become genuine friends. Reliability, honesty and trust are the cornerstones on which we base our actions.

We are there for you in cases of questions and problems - it is our objective to work successfully with you in the long-term. That is why we do everything for your success - honestly, fairly and at an eye-to-eye level.

Click on our icon to return to the table of contents.



Corporate
video



Like a tree in the forest CONTINUOUS GROWTH



OH, YOU LOVELY WESTERWALD

The year is 1988. With the simple idea, to offer plastic closures of high quality and short delivery times, Rainer Busch and Klaus Schweitzer started a two-man business in a former carpenter's atelier in Sensenbach.

The machine park consisted of only three injection-molding machines and the production of only two items: The tamper-evident cap/TE1 in black (see page 19) and the Uni 2 horizontal dropper (see page 41). This screw-cap system proved convincing and a short time later an intermediate storage facility had to be set up in Niederwambach, three kilometers away, as well as other warehouses in Altenkirchen, to be able to process the ordered capacities.

With their personalities the two founders have always lived our company philosophy and thus created a trusting relationship with our customers. Without defining the core meaning of this philosophy they did a professional job and put all their powers into this enterprise. Therefore it was already foreseeable after a short time that there was not enough space for the production of the highly demanded SENSOPLAST® products. The new main location in Oberhonnefeld was established in 1998 by purchasing a hall, which had to be extended just three years later.

A milestone for SENSOPLAST®

An important step towards even more professionalism was marked by our ISO certifications in 2010, which allowed us to officially prove that our standards meet the highest requirements and that our products are manufactured under hygienic conditions. In addition, in 2009 we purchased an administrative building that housed the beginnings of our charming sales team which is one of our current service pillars.

Less than five years later, this location no longer offered sufficient floor space either and SENSOPLAST® expanded to Daufenbach, with a state-of-the-art new building: our energy-efficient, 2,500 sqm service and logistics center. After another two years, an assembly center of more than 4,000 sqm with a state-of-the-art component warehouse was built alongside this building.

In less than 35 years, thanks to the power of our long-standing employees, we have succeeded in establishing a family-run company in the market, permanently exhausting our production capacities and increasing them every year.

From three injection-molding machines and one product to a machine park of more than 50 injection-molding machines and 20 state-of-the-art automatic assembly machines that produce a range of more than 1200 articles at a speed that is invisible to the naked eye. The signs continue to point to growth, so that we can continue to be your partner and provide you with active and flexible support. We manufacture 24 hours a day, seven days a week and supply you worldwide with real quality "Made in Westerwald".

We work with professionalism, personality and power. We are SENSOPLAST®, we care.


FRANK BUSCH, MANAGING DIRECTOR

It is about a LIVABLE FUTURE



IK Initiative - Zero Granulate Loss

We are aware of our responsibility as a plastics processor in connection with our sensitive ecosystem. Therefore, it is a personal concern of ours to prevent the loss of plastic granulate along the entire supply chain and we joined the worldwide initiative "Zero Granulate Loss". Even though the percentage of the raw material plastic granulate that ends up in the environment is very small, we want to do everything we can to preserve the beautiful landscapes for our children.



Gesamtverband Kunststoffverarbeitende Industrie e. V. (German Plastics Processing Industry Association)

As a member of the GKV, we assume social responsibility and act in accordance with the GKV Code of Conduct, which defines standards for fair and sustainable dealings with suppliers, customers and company employees. Standards for consumer protection are observed, as is the duty of care for environmental protection and the pursuit of environmentally friendly production methods. This also results in the responsible use of our resources.

OUR WAY TO DEAL WITH RESOURCES

Our self-declared goal is to produce in a climate-neutral manner in the long-term. To achieve this, we set ourselves verifiable targets and objectives. We work exclusively with high-quality, single-variety plastic granules that are 100% recyclable and can be returned to the production cycle. In addition, they have the appropriate approvals for pharmaceutical and food contact.

Surplus components generated in our production are professionally re-granulated and fed into the processing cycle of partner companies.

As part of our corporate activities, we assume responsibility for current and future generations in our rural region in the middle of the Rhine-Westerwald Nature Park and are committed to preserving this beautiful landscape.

For this reason, we rely on renewable energies and power generation from our own energy sources of our photovoltaic systems. We use the self-generated electricity in a resource-saving way not only for our production machines and hall lighting, but also for the use of electric company cars, e-bikes and e-scooters for our employees. In addition, we use the excess heat from our production machines to heat our buildings. Through the use of the latest technologies as well as the conscious use of our resources, we want to be a role model for our immediate environment, regional suppliers, business partners and our employees and encourage them to follow suit.

For a future that is worthwhile - we care.



Recyclable materials



Electricity from our own photovoltaic



Room heating by excess heat



LED lighting



E-company car



E-bike leasing for employees

100% MADE IN
WESTERWALD





Our standard HYGIENIC QUALITY



SPEED AND HYGIENE STANDARDS

Rising output speeds and volumes are making it increasingly difficult for manufacturing companies to process the required output. With intelligent process sequences and the latest technology, our production is fully geared to speed and the highest standards of hygiene. With specially designed assembly machines, we achieve maximum output.

Fast. Precise. Efficient. A camera-supported system monitors the production process and also removes

any defective parts fully automatically. Clean, safe and hygienic, we process only high-quality plastic granules with pharmaceutical approval. These are of course also suitable for contact with foodstuffs.

Our "zero granulate loss" principle ensures a 100 percent recycling rate for the plastic materials generated in production. At the same time, we minimize production emissions for responsible and sustainable use of resources.

PROVEN QUALITY STANDARDS

Our quality management meets the requirements of the globally applicable standards: DIN EN ISO 9001 and DIN EN ISO 15378. Our predominantly international customers can be assured at all times of the production, assembly and packaging of primary packaging materials under controlled quality conditions, which are demanding from a process and hygiene point of view.

In addition, we meet our own, far stricter quality requirements. The core of our system is our quality manual, in which we have documented all production-relevant processes down to the last detail. We ensure seamless batch tracking of all manufactured components throughout the entire value chain. At various points in the production process, all components and the end product are carefully inspected by our quality assurance department.

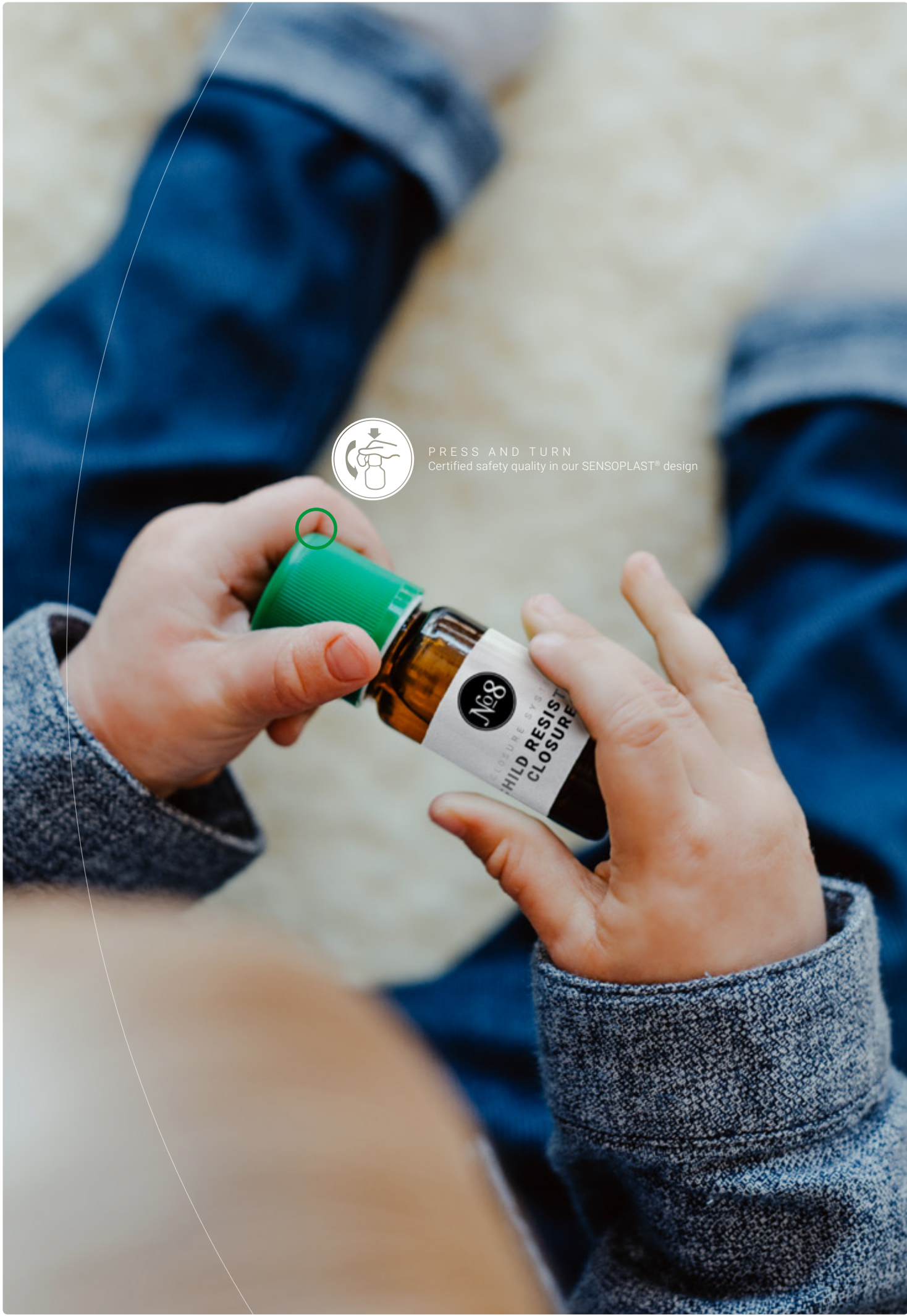
All test results are available in the form of a detailed quality certificate. They meet the high quality requirements for pharmaceutical primary packaging materials. Production, assembly and packaging are carried out under hygienically perfect conditions. We base our quality assessment on the following recommendations:

- World Health Organization (WHO)
- Good Manufacturing Practice (GMP)
- ECV Editio Cantor Verlag für Medizin und Naturwissenschaften GmbH, Aulendorf (publications of the respectively valid error evaluation lists for injection-molded plastic parts: closures, sealing inserts, dosing aids, droppers, etc.)

CERTIFICATES DIN EN ISO 9001 & DIN EN ISO 15378



Scope: Development, production and distribution of pharmaceutical primary packaging material



PRESS AND TURN
Certified safety quality in our SENSOPLAST® design

Certified PROTECTION FOR CHILDREN



CHILD-RESISTANT CLOSURES

Never before in the history of mankind has it been possible to detect, treat and cure so many different diseases at an early stage. One drug can mean a better quality of life for one person. For children, however, the same dose can become life-threatening in the worst case.

This international standard for re-closable, child-resistant packaging is used for both pharmaceutical and chemical-technical products. Only packaging that proves equally child-resistant in tests with small children and suitable for senior citizens meets the requirements of the standard.

That's why at SENSOPLAST® we develop child-resistant closures that prevent young children from coming into contact with the contents. Our screw caps can be opened easily by adults and therefore also meet the needs of older people. No easy task. But one that we are happy to take on.

Our solution: We mount the screw cap in an cover cap and interlock the two components. The cap can only be turned off the bottle if it is pressed and turned at the same time. Simple and proven a million times over, the design has been tested for its reliability and is considered child-resistant in accordance with the above-mentioned standards and corresponding expert opinion.

All SENSOPLAST® child-resistant closures are certified according to DIN EN ISO 8317 and US 16 CFR § 1700.20.

ivm CHILDSAFE - Institut VerpackungsMarktforschung GmbH



SENSOPLAST® Packmitteltechnik GmbH is certified according to DIN EN ISO 8317 as well as the US 16 CFR § 1700.20 certified. The packaging is child-resistant and suitable for adults.

We are

YOUR SOLUTION

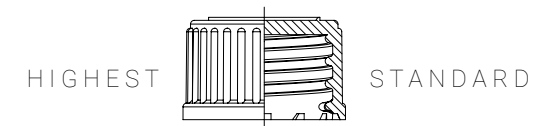


For more than 30 years we have been a competent partner for pharmaceutical primary packaging. We offer perfect solutions for a wide range of applications when it comes to closures, closure

systems, dosing systems and pharmaceutical glass. Our products are individually adapted to your contents and offer the greatest possible protection and the perfect dosage for consumer use.



Click the flag to return to the table of contents.



REGULAR CLOSURES

GENERAL INFORMATION

Easy handling is the essential criterion of all SENSOPLAST® regular closures. Manual capping as well as semi- or fully-automatic processing on filling and capping lines is possible. The internal geometry of the closure is adapted to the respective dosing insert, so that pre-assembly in our factory can be carried out without any problems. The outer shape of a closure type is identical despite different dosing inserts.

+ ADVANTAGES

- Simple closure
- Robust sealing
- Sturdy design
- Perfect grip
- Suitable for sealing machines (semi & fully automatic)
- Manual processing possible
- Easy handling for end users
- Ideal for all liquids which do not require a child safety lock
- Large variety of colors

COMBINATIONS



Horizontal droppers

Vertical droppers

Pourers

Spray inserts

Syringe adaptors



Pipette assemblies



Brush & spatula assemblies



Sealing insert closures



Threads

DIN 168 GL-18 (DIN 18)

DIN 168 GL-22 (DIN 22)

PP 28 (DIN 6094-7)



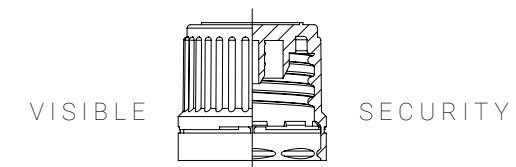
Raw material

Polypropylene (PP)

Polyethylene (HDPE)



TAMPER
EVIDENCE



TAMPER EVIDENT CLOSURES/TE1

GENERAL INFORMATION

In addition to the ease of handling, the great advantage of our tamper-evident closures is their perfectly visible protection when the product is opened for the first time. We manufacture one-piece, tamper-evident closures as individual components in a single injection-molding process. The advantage is that the tamper-evident ring

of the closure audibly tears off during the initial opening and remains clearly visible on the bottle shoulder during further use. Depending on requirements, manual capping as well as semi-automatic or fully automatic processing on filling and capping lines is possible.

+ ADVANTAGES

- Absolutely tamper proof
- Sturdy design
- Perfect grip
- Ring reliably tears off at the first opening by the end user
- The tamper-evident ring clearly indicates that the shutter has already been opened
- Manual processing possible
- Suitable for sealing machines (semi & fully automatic)
- Ideal for all liquids that do not require a child safety lock
- Large variety of colors

COMBINATIONS



Horizontal droppers

Vertical droppers

Pourers

Spray inserts

Syringe adaptors



Pipette assemblies



Brush & spatula assemblies



Sealing insert closures

FACTS



Threads

DIN 168 GL-18 (DIN 18)

PP 28 (DIN 6094-7)

Do you need an alternative thread form? Contact us for more information or continue reading on page 31.



Raw material

Polypropylene (PP)

Polyethylene (HDPE)

Variants

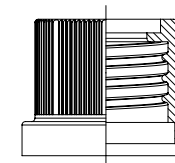
Fine fluting

Rough fluting

HIGH
STABILITY

ELEGANT
APPEARANCE

FROM TWO



COMPONENTS

TAMPER-EVIDENT CLOSURES/TE2

GENERAL INFORMATION

The "all-rounder" among screw caps: our two-part tamper-evident cap. Its classically elegant design and visible protection when the product is opened for the first time and enable versatile use.

Our two-part tamper-evident closures consist of two components made of different plastic raw materials - a closure body made of robust PP and a separately manufactured tamper-evident ring made of HDPE.

The tamper-evident ring of the closure audibly tears off during the initial opening and remains visible on the bottle shoulder. We are happy to offer exclusive design options for our tamper-evident closures on request. In addition to different outer shapes and ribbing, it is also possible to apply your company logo and to select the color of your choice. Please contact our sales team, we will be happy to advise you.

+ ADVANTAGES

- Absolutely tamper proof
- Sturdy design
- Attractive outer shape
- Exclusive design options
- Perfect grip
- Manual processing possible
- Suitable for sealing machines (semi & fully automatic)
- Ideal for all liquids that do not require a child safety lock
- Ring reliably tears off at the first opening by the end user
- The tamper-evident ring clearly indicates that the closure has already been opened
- The color of the cap and tamper-evident ring can be selected independently of each other

COMBINATIONS



Horizontal droppers

Vertical droppers

Pourers

Spray inserts

Syringe adaptors



Pipette assemblies



Brush & spatula assemblies



Sealing insert closures



Threads

DIN 168 GL-18 (DIN 18)

PP 28 (DIN 6094-7)



Raw material closure

Polypropylene (PP)

Polyethylene (HDPE)

Raw material
tamper evident ring

Polyethylene (HDPE)

Variants

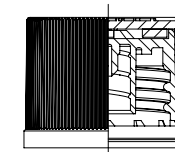
Fine fluting

Rough fluting





FOR YOUNG



AND OLD

CHILD RESISTANT CLOSURES

GENERAL INFORMATION

Particularly when it comes to the topic of "child-resistant packaging", we see ourselves as a responsible manufacturer. That is why our child-resistant screw caps offer maximum safety. At the same time, the packaging must meet the needs of elderly people. Our closures meet these conflicting product requirements in equal measure. Safely closed for small children - easy to open for senior citizens.

We mount the screw cap in a cover cap and interlock the two components. The cap can only be twisted off the bottle by pressing and twisting at the same time. Simple and proven a million times over, the design has been tested for reliability in accordance with the criteria of DIN EN ISO 8317 and US 16 CFR § 1700.20 and is considered child-resistant in accordance with the above-mentioned standards and the corresponding expert opinion.



ADVANTAGES

- Internationally familiar: Press + Turn system
- Low torque
- Reliable technology
- Different lid embossings possible (logo, symbols, etc.)
- Childproof and senior-friendly
- Realization of your design
- If child safety is absolutely necessary



CERTIFICATION

ISO 8317 + US 16 CFR § 1700.20



FAMILIAR PRESS AND
TURN SYSTEM



COMBINATIONS



Horizontal droppers
Vertical droppers
Pourers
Spray inserts
Syringe adaptors



Pipette assemblies



Brush & spatula assemblies



Sealing insert closures

FACTS



Raw material inner cap

Polypropylene (PP)
Polyethylene (HDPE)

Threads

DIN 168 GL-18 (DIN 18)
PP 28 (DIN 6094-7)



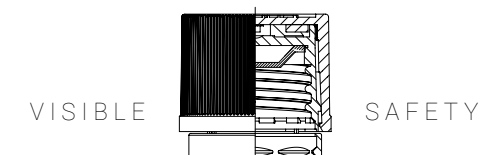
Raw material cover cap

Polypropylene (PP)

Variants

Short cover cap:
Fine fluting

Tall over cap:
Fine fluting,
rough or
no fluting (smooth)



TAMPER EVIDENT CHILD RESISTANT CLOSURES

GENERAL INFORMATION

Our "TE variant" meets the same requirements regarding child safety and senior-friendly use as our child safety closures (see page 23).

We mount the screw cap in a cover cap and interlock the two components. The cap can only be twisted off the bottle if it is pressed and twisted at the same time. Simple and proven a million times over, the design has been tested for reliability according to the criteria of DIN EN ISO 8317 and US 16 CFR § 1700.20 and is considered child-resistant according to the above-mentioned standards and

corresponding expert opinion. In addition, it provides visible protection when the product is opened for the first time. The tamper-evident ring of the closure audibly tears off when the bottle is opened for the first time and remains visible on the shoulder of the bottle.

We are happy to offer exclusive design options for our tamper-evident closures on request. In addition to different outer shapes and ribbing, it is also possible to apply your company logo or select your desired color. Please contact our sales team, we will be happy to advise you.

+ ADVANTAGES

- Internationally familiar: Press + Turn system
- Low torque
- Reliable technology
- Different lid embossings possible (logo, symbols, etc.)
- Attractive outer shape
- Childproof and senior-friendly
- Realization of your design
- Color of closure and tamper-evident ring can be selected independently

📖 CERTIFICATION

ISO 8317 + US 16 CFR § 1700.20



COMBINATIONS



Horizontal droppers
Vertical droppers
Pourers
Spray inserts
Syringe adaptors



Pipette assemblies



Brush & spatula assemblies



Sealing insert closures

FACTS



Raw material inner cap

Polypropylene (PP)
Polyethylene (HDPE)

Threads

DIN 168 GL-18 (DIN 18)
PP 28 (DIN 6094-7)



Raw material cover cap

Polypropylene (PP)

Variants

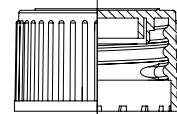
Short cover cap:
Fine fluting

Tall over cap:
Fine fluting,
rough or
no fluting (smooth)



COST EFFICIENT

HIGH SCREWING
CONVENIENCE

SIMPLY  EFFECTIVE

SELF SEALING CLOSURES

GENERAL INFORMATION

Intrinsic-sealing, also known as self-sealing or conical sealing, is the simplest and least expensive method of sealing a bottle tightly. The advantage is that only one raw material specification is required. Simple, but efficient. The closure is given a conical sealing lip on the inside of the closure in the injection molding process. Sealing is

achieved by the closure itself, without the need for any other component. All SENSOPLAST® closure types are available self-sealing. If required, various inserts such as brushes or spatulas can be mounted in this closure type. Our sales team will be happy to advise you.

+ ADVANTAGES

- Easy handling
- Cost efficient
- Effective sealing
- Stable design
- Perfect grip
- Manual processing possible
- Suitable for sealing machines (semi & fully automatic)
- Ideal for all liquids which do not require a child safety lock
- wide range of colors

FACTS



Threads

DIN 168 GL-18 (DIN 18)
DIN 168 GL-22 (DIN 22)
PP 28 (DIN 6094-7)



Types

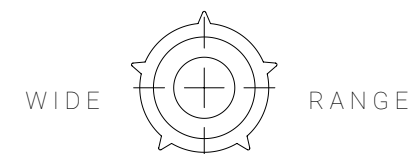
Regular closures
Tamper evident closures/TE1
Tamper evident closures/TE2
Child resistant closures/CRC
Tamper evident child resistant closures



Raw material

Polyethylene (HDPE)
Polypropylene (PP)





SEALING INSERT CLOSURES

GENERAL INFORMATION

Depending on the requirements of the various liquids, the optimum sealing of the filling material is achieved with a sealing liner tailored to the intended use. For all products, we can meet your individual requirements and offer a variety of special sealing inserts (liners) made of different raw materials.

Depending on the respective liquid, Teflon or aluminum liners can also be used, among others. In close cooperation with you, we develop solutions tailored to your product so that the corresponding sealing inserts (liners) of the closure meet the requirements of the various liquids.

+ ADVANTAGES

- Universal use with different viscosities of liquids
- Perfect tightness
- Wide range of materials
- Exact fit for the selected closure
- Independent of the diameter of the bottle orifice

FACTS



Threads

DIN 168 GL-18 (DIN 18)
DIN 168 GL-22 (DIN 22)
PP 28 (DIN 6094-7)



Types

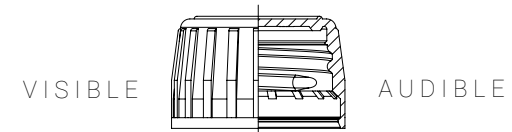
Smooth liners made from EPE foam in various densities
Smooth liners made from EPE foam laminated with aluminium, Teflon or other materials in various densities
Conical liners made from polyethylene (LDPE)



Raw material

Polyethylene (HDPE)
Polypropylene (PP)





SENSO screwCAP

GENERAL INFORMATION

Easy handling and perfectly visible protection when your product is first opened. The SENSOscrewCAP from SENSOPLAST® consists of two components of different plastic raw materials. A separately manufactured tamper-evident ring made of HDPE is mounted in the closure body, which is made of robust PP. The tamper-evident ring of the closure audibly tears off during the initial opening

and remains visible on the bottle shoulder during further use. This reliable function offers a high level of tamper-evidence for your customers and at the same time enables controlled dosing of your liquid.

The color of the cap and tamper-evident ring can be varied to enable product labeling, for example.

+ ADVANTAGES

- Color of cap and tamper-evident ring can be selected independently
- Tamper evidence
- Perfect grip
- Comfortable screwing
- Many design options
- Reliable technology
- Manual processing possible
- Suitable for closing machines (semi & fully automatic)

COMBINATIONS



Spray inserts

Pourers

Syringe adaptors



Sealing insert closures



Threads

PP 28 (DIN 6094-7)

Do you need an alternative thread form? Contact us for more information.



Raw material

Polyethylene (HDPE)

Polypropylene (PP)

Variants

Without tamper evident ring

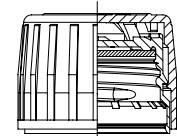
With tamper evident ring/TE1

With tamper evident ring/TE2

Fine fluting

Rough fluting



PRESS  TURN

SENSOkidCAP®

GENERAL INFORMATION

SENSOPLAST® combines the advantages of tamper-evident closure with a child safety solution. The cap can only be removed from the bottle by simultaneously pressing and turning the cap. At the same time, tearing off the tamper-evident ring reveals the initial opening.

This special design has proven itself millions of times over and has been tested for reliability in accordance with the international criteria of DIN EN ISO 8317 and US 16 CFR § 1700.20.

As a result, we achieve maximum safety for children and can still offer a haptic that can be opened comfortably by senior citizens.

In addition to the individual design of the lid embossing, the SENSOkidCAP® can be combined with all common inserts from our range and thus offers maximum leakage protection as well as exact dosing of the contents.

+ ADVANTAGES

- Color of cap and tamper-evident ring can be selected independently
- Internationally familiar: Press + Turn system
- Different lid embossings possible
- Childproof and senior-friendly at the same time
- Manual processing possible
- Suitable for closure machines (semi & fully automatic)
- When childproofing is absolutely necessary
- Perfect grip

BOOKMARK CERTIFICATION

ISO 8317 + US 16 CFR § 1700.20



COMBINATIONS



Spray inserts

Pourers

Syringe adaptors



Sealing insert closures



Threads

PP 28 (DIN 6094-7)



Raw material cover cap

Polypropylene (PP)

Raw material inner cap

Polyethylene (HDPE)

Variants

With tamper evident ring

Without tamper evident ring

We are

PRECISION



The power to give our best every day is not a product of chance. Only in a professional, friendly atmosphere can motivation emerge, to be omnipresent with power and heart. We concentrate our forces on

the service for the customer satisfaction and manufacture reliable products that meet the highest quality standards.



INDIVIDUAL LENGTH
AND GRADUATION

SUITABLE FOR
CBD OILS

SIMPLE DOSING

PIPETTE ASSEMBLIES



GENERAL INFORMATION

Our pipette assemblies are market proven for dispensing liquid ingredients with pinpoint accuracy and in precise quantities. SENSOPLAST® offers a wide range of different types and lengths made of AR-GLAS® in hydrolytic class III. In addition to the length of the pipette, the size and raw material of the teat can be selected variably.

Thermoplastic elastomer (TPE) offers several advantages over natural rubber: The material is 100% recyclable. It can be re-granulated and reused at any time. Shorter delivery times, higher product quality and resistance to aggressive liquids make TPE universally deployable.

SENSOPLAST® pipette assemblies have pharmaceutical approval and meet food contact standards.

The following closure types can be used:

Regular closures (RC), made of PP
Tamper evident closures/TE1, made of HDPE
Tamper evident closures/TE2, made of PP and HDPE (ring).

Pipette types:

Curved ball tip (standard)
Straight, conical tips
Various other tip shapes are possible



ADVANTAGES

- Individual length and graduation
- Simple and market proven handling
- Countable drops by pressure
- Perfect and hygienic dosing
- Threaded connection
- Wide range of designs, raw materials and colors
- Perfect for CBD and other oils
- Individual components can be selected individually
- With or without tamper evident ring
- Manual processing possible
- Suitable for capping machines (semi & fully automatic)



ADVANTAGES TPE

- Optimized delivery times
- Variable size of the teat
- Higher resistance against aggressive liquids
- Constant production quality
- Meets the standards for food contact
- Individual color choice

FACTS



Threads

DIN 168 GL-18 (DIN 18)
PP 28 (DIN 6094-7)



Pipette graduation

Printed graduation with ceramic ink
in black or white

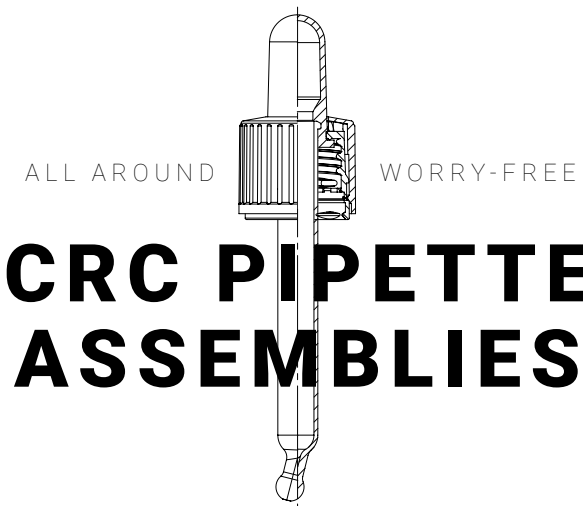


Raw material teat

Thermoplastic elastomer (TPE)
Nitrile rubber (NBR)
Natural rubber (NC)

SENIOR FRIENDLY
HAPTICS

WITH OR WITHOUT
TAMPER EVIDENT RING



CRC PIPETTE ASSEMBLIES

GENERAL INFORMATION

Accidents involving children are a sensitive issue. Here, it is particularly important to ensure maximum safety in order to provide the greatest possible protection. This is exactly what our child-proof pipette assemblies guarantee to a high degree, while at the same time offering precise dispensing of liquids.

Simple and proven a million times over, the design of the pipette assembly and child-resistant closures have been tested for reliability in accordance with the criteria of DIN EN ISO 8317 and US 16 CFR § 1700.20 and are considered child-resistant in accordance with the aforementioned standards and the corresponding expert opinion.

With our CRC pipette assemblies, you have a wide range of customization options. From the length of the glass pipette or its graduation to the color and volume of the teat. A first-class all-around worry-free product in excellent SENSOPLAST® quality - with approval for the pharmaceutical and food sectors - Made in Westerwald.

The following closure types can be used:

CRC screw caps, made of HDPE
CRC tamper-evident closures, one-piece (TE1), made of HDPE

Pipette types:

Curved ball tip (standard)
Various other tip shapes are possible

+ ADVANTAGES

- With or without tamper evident ring
- Color of closure and tamper-evident ring can be selected independently
- Teats with volumes of 0.7 or 1.0 ml in different colors
- Length of glass pipette can be selected to fit all standard bottles
- Individual graduation of the glass pipette possible
- Childproof and suitable for senior citizens
- Worldwide pharmaceutical and food conformity
- GMP guidelines

+ CERTIFICATION



SENSOPLAST® is also certified according to
DIN EN ISO 9001 and DIN EN ISO 15378

FACTS



Threads

DIN 168 GL-18 (DIN 18)
for dropper bottles made of glass and PET



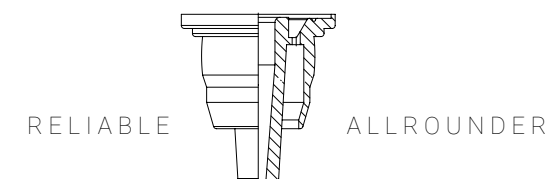
Pipette graduation

Printed graduation with ceramic ink
in black or white



Raw material teat

Thermoplastic elastomer (TPE)
Nitrile rubber (NBR)
Natural rubber (NC)



HORIZONTAL DROPPER

GENERAL INFORMATION

SENSOPLAST® horizontal droppers are true all-rounders. They are used in a variety of applications, especially in the field of essential oils, herbal preparations or homeopathy, where the dosage may vary slightly. This variance is caused by the different position of the bottle at an angle of approx. 120° to 150°, depending on the application. The drop runs over the horizontal dropper without touching the mouth of the bottle, thus preventing the formation of a

"liquid bead" on the outside of the bottle. The excess is returned to the bottle without leaving any residue. We will select for you the horizontal dropper that exactly matches your liquid.

By sending us your product samples, we will find the perfect dropper type to provide your customers with convenient dosing.



ADVANTAGES

- Universal applicability for different viscosities of liquids
- Solids contained in the fluid (e.g. vegetable) do not hinder the dripping behavior
- Drip rate can be adjusted by the user
- High screwing comfort
- Easy handling
- Can be combined with all SENSOPLAST® DIN 18 closures
- Manual processing possible
- Suitable for capping machines (semi & fully automatic)



WE CARE

We will select the horizontal dropper that exactly matches your liquid.

Simply send us a product sample.

FACTS



Suitable for threads

DIN 168 GL-18 (DIN 18)

DIN 168 GL-22 (DIN 22)



Raw material

Polyethylene (LDPE)

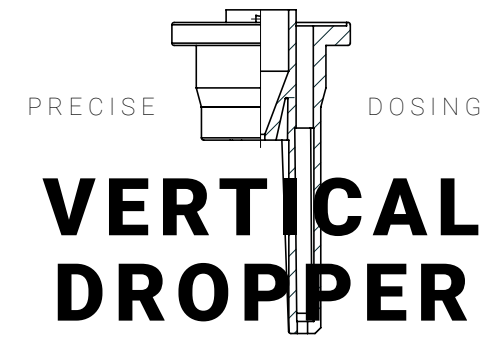
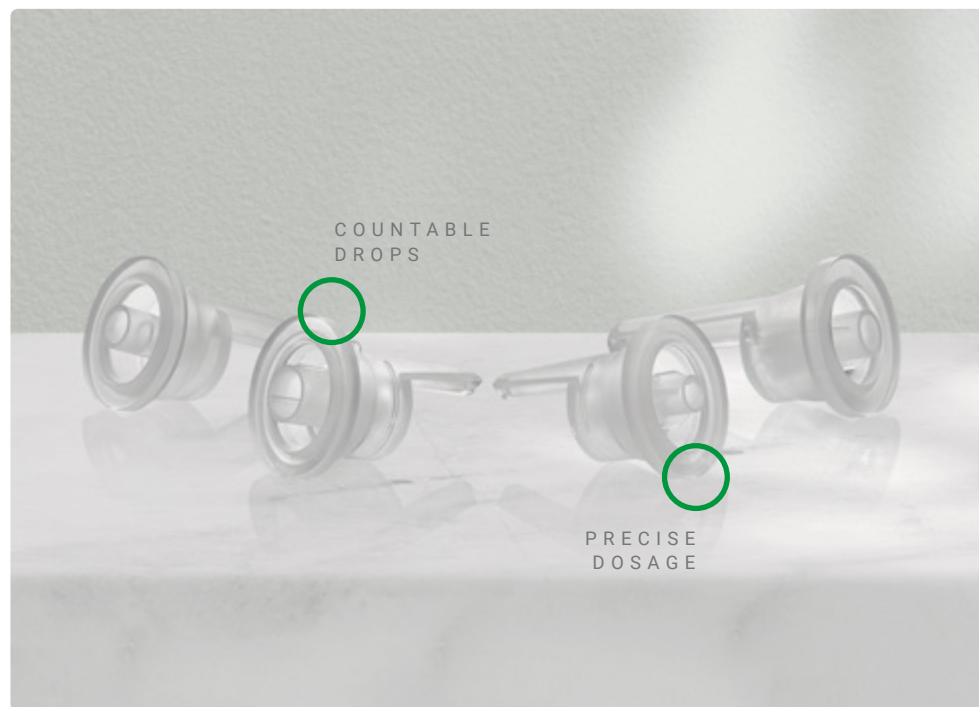


Types

UNI 1 - for oily, slightly viscous liquids

UNI 2 - for alcoholic and aqueous liquids

R 07/21 - for alcoholic and aqueous liquids



GENERAL INFORMATION

Precise dosing of preparations is essential, especially in pharmacy and diagnostics. SENSOPLAST® vertical droppers allow exact dosing of any liquid. A bottle holding position of 180° (overhead) allows hardly any tolerances. The design of a centrally positioned drop tube as well as a laterally positioned air tube ensures extremely accurate drop delivery. The speed, size and weight of the drop

depend on the liquid and the diameter of the drop and air tubes. Every liquid is different - in consistency, volume and density. We select or develop for you the vertical dropper that exactly fits your liquid and find the optimal product combination of closure and dripping insert. Send us your preparation with the desired bottle size and dosing instructions. We will do the rest for you.



ADVANTAGES

- Incorrect dosing by the consumer can be minimized, as the holding position (180°, overhead) is unambiguous
- Countable drops
- Drop size and weight can

be precisely dosed

- Can be combined with all SENSOPLAST® DIN 18 closures
- Manual processing possible
- Suitable for capping machines (semi & fully automatic)



WE CARE

We will select for you the vertical dropper that exactly fits your liquid. Simply send us a product sample.

FACTS



Suitable for thread
DIN 168 GL-18 (DIN 18)

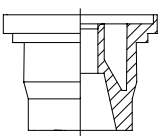


Raw material
Polyethylene (LDPE)



Types
Standard vertical droppers
Compact vertical dropper



CLEAN  DOSING

POURER

GENERAL INFORMATION

Intuitive. Individual. Clean. Similar to horizontal droppers, pourers are used in preparations where the dosage can vary slightly. Here, too, there is a wide range of applications, from essential oils to food oils to cough mixtures.

functional parts, meet the different consumer habits in the holding position of the user. The sharp edge of the spout ensures that the liquid does not come into contact with the glass thread and enables clean pouring - regardless of the holding position. Consumer convenience par excellence.

+ ADVANTAGES

- For all viscosities
- Clean pouring with perfect backflow
- Suitable for all closures
- Manual processing possible
- Suitable for capping machines (semi- & fully automatic)

! WE CARE

We will select for you the pourer that exactly fits your liquid. Simply send us a product sample.

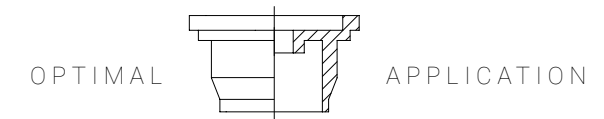
FACTS



Suitable for threads
DIN 168 GL-18 (DIN 18)
DIN 168 GL-22 (DIN 22)
PP 28 (DIN 6094-7)



Raw material
Polyethylene (LDPE)



SPRAY INSERT

GENERAL INFORMATION

SENSOPLAST® spray inserts are used wherever an undetermined amount of liquid is to be applied. Closures with integrated spray inserts reliably and cleanly limit the flow rate of very thin liquids directly at the bottle neck and ensure a controlled flow. Less flowable fluids such as

lotions or skin oils can also be applied optimally without coming into contact with the glass thread.

We will be happy to check and advise you on whether a spray insert is suitable for your medium. Simply get in touch with our sales team.



ADVANTAGES

- Clean and easy dispensing
- Controlled reflux
- For all common closures
- Optimal application
- Suitable for pharmacy, medicine, dietary supplements, lifestyle and food products
- Suitable for globules
- Manual processing possible
- Suitable for capping machines (semi- & fully automatic)

FACTS



Suitable for threads

DIN 168 GL-18 (DIN 18)

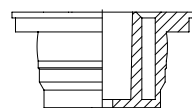
PP 28 (DIN 6094-7)



Raw material

Polyethylene (LDPE)



SIMPLY  SAFE

DOSING SYRINGES & ADAPTORS

GENERAL INFORMATION

Dosing syringes are used in a wide variety of applications, especially in medicine. The combination of SENSOPLAST® syringe adaptors and dosing syringes enables extremely precise dosing of contents - whether liquid or less flowable. They form a precise and perfectly coordinated dosing system.

Syringe adaptors from SENSOPLAST® are also suitable for all commercially available dosing syringes and offer

a complementary component for numerous syringe diameters with a secure grip for comfortable and precise dosing. Until filling, the syringe adaptor is integrated in the screw cap.

Our sales team will be happy to advise you on the perfect combination of your liquid with the syringe adaptor and suitable dosing syringe.



ADVANTAGES

- Perfect and hygienic dosing
- Pre-assembled in the closure
- Clean and easy dosing
- Suitable for globules
- Manual processing possible
- Suitable for closure machines (semi- & fully automatic)



WE CARE

The matching syringes for the respective size can be ordered as well.

FACTS



Suitable for threads

DIN 168 GL-18 (DIN 18)

PP 28 (DIN 6094-7)



Raw material

Polyethylene (LDPE)

MARKET TESTED
HANDLING

FOR INDIVIDUAL
VISCOSITY GRADES



PRECISE

APPLICATION

BRUSH & SPATULA ASSEMBLIES

GENERAL INFORMATION

Our assemblies are especially used in the field of beauty care and in the medical field. Brush and spatula assemblies enable precise application of viscous liquids.

The preparation is only released when it touches the skin or surface. SENSOPLAST® assemblies offer a high degree of variability in the nature of the brush. Easy to handle, the products guarantee applicability of fluids with varying degrees of viscosity. The combination of the correct screw

cap, a tamper-evident closure or a child-resistant closure result in the exact combination possibilities which not only guarantee the leakage safety of your liquid, but also present the advantages of your product in form and color.

Contact us. With us, you will find the appropriate brush and spatula assemblies for your preparation relating to its viscosity as well as the required length in relation to the selected bottle.



ADVANTAGES

- Easy and market-tested handling
- Applicability of preparations with different viscosities
- Large variability in design, length and color
- Large selection of closures depending on application area and safety class



WE CARE

Which liquid is involved?
What are the physical properties of the liquid?

FACTS



Suitable for threads

DIN 168 GL-18 (DIN 18)
PP 28 (DIN 6094-7)



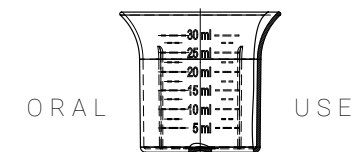
Raw material

Spatula: Polyethylene (LDPE)
Brush shaft: Polyethylene (LDPE)
Brush hair: black TYNEX® monofilament (PA)



Types

Regular closures
Tamper evident closures/TE1
Tamper evident closures/TE2
Child resistant closures/CRC
Tamper evident child resistant closures (CRC/TE)



MEASURING CUPS & MEASURING SPOONS

GENERAL INFORMATION

Dosing aids such as measuring cups made of polypropylene are almost unbreakable and resistant. They are used above all in the food and pharmaceutical industry in the dosing of products where a precisely measured quantity is essential.

SENSOPLAST® measuring spoons or measuring cups enable precise dosing and oral application of liquids with different viscosity grades.

Our standard measuring spoons are available with scaling of 0.5 ml, 2.5 ml and 5 ml, allowing precise dosing,

as it is often required for drug intake. The measuring cup variants are variably attachable to PP 28 threaded closures and offer a very economical use of space in secondary packaging.

All SENSOPLAST® measuring cups and measuring spoons are certified in accordance with 93/42/EWG and bear the CE mark and manufacturer's logo in accordance with the Medical Devices Regulations.

+ ADVANTAGES

- Clear transparency
- Simple and market-proven handling
- Applicability of preparations with different degrees of viscosity
- Stable design
- Measuring cups fit on our PP 28 closures
- Manual processing possible
- Suitable for capping machines (semi- & fully automatic)
- Certified medical device

📖 CERTIFICATION



FACTS



Types



Handling



Raw material

Measuring cups

Can be placed on closures with PP 28 thread

Polypropylene (PP), transparent

Measuring spoons

Measuring spoons are usually enclosed with preparations

Polystyrene (PS), transparent/glossy



GENERAL INFORMATION

The SENSOPLAST® container glass range offers complete solutions for all sectors. Container glass, also known as moulded glass, remains one of the leading primary materials for pharmaceutical, cosmetic and chemical applications. In addition to our product range made of plastic and elastomer manufactured by ourselves, we offer suitable pharmaceutical bottles with screw threads, depending on customer and product requirements.

We provide all common neck finish shapes and volumes in our program and guarantee the perfect combination of closure, dosing system and bottle. Thanks to the close cooperation of our in-house research and development department with leading European glassworks, we can find the optimum complete solution for every customer requirement. Our amber and clear glass bottles are available film-sealed in "Safepacks" or "Trays".

FACTS



Types



Filling quantity



Threads

Dropper bottles

5–100 ml

DIN 168 GL-18 (DIN 18)

Syrup bottles

30–1000 ml

PP 28 (DIN 6094-7)
DIN 168 GL-22 (DIN 22)

Medicine packaging bottles

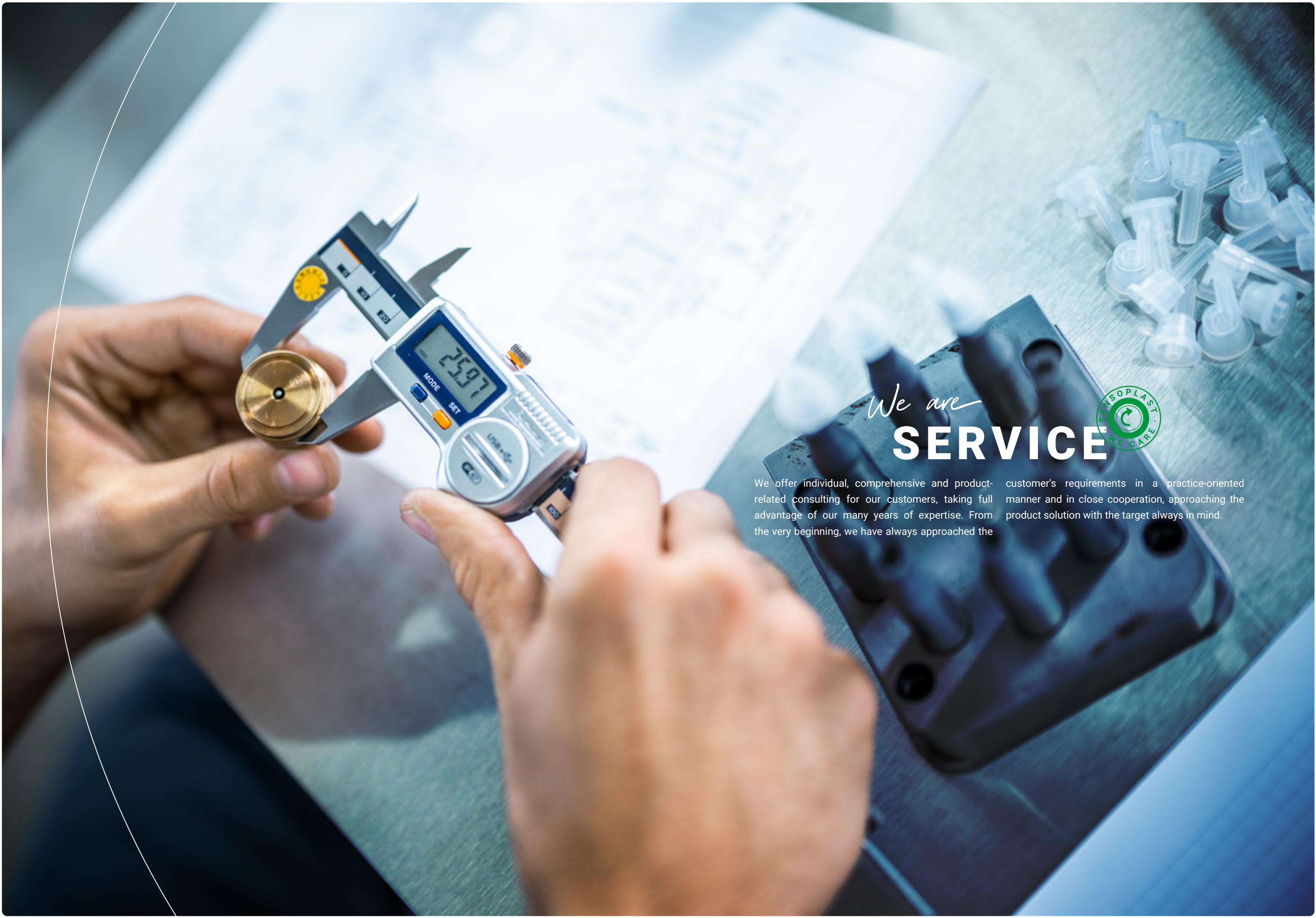
50–1000 ml

PP 28 (DIN 6094-7)
DIN 168 GL-22 (DIN 22)

Meplat bottles

30–1000 ml

PP 28 (DIN 6094-7)
DIN 168 GL-22 (DIN 22)

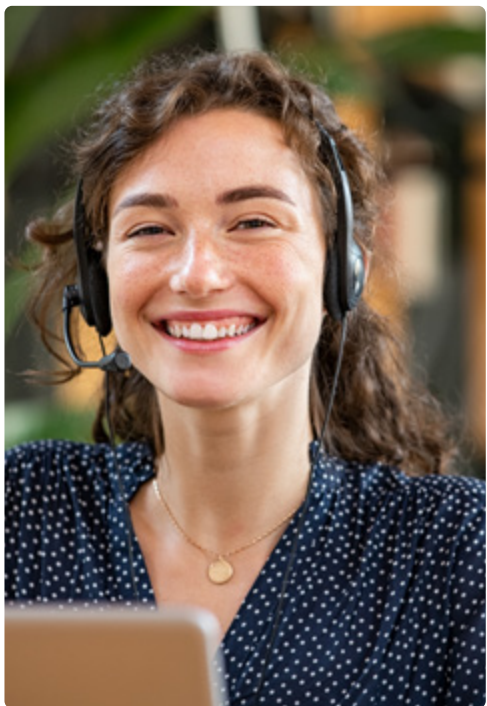


We are
SERVICE



We offer individual, comprehensive and product-related consulting for our customers, taking full advantage of our many years of expertise. From the very beginning, we have always approached the

customer's requirements in a practice-oriented manner and in close cooperation, approaching the product solution with the target always in mind.



Our passion OUR SERVICE



QUALITY IS NOT DETERMINED BY THE PRODUCT ALONE

Excellent service is our top priority. Individual and personal advice with fixed contact persons and fast response times are a matter of course for us. It's the little things that make the difference. That's why you can trust SENSOPLAST®, because we pay attention to details and know about dispensing solutions like no one else.

We treat our customers as equals and adhere to agreements: Short delivery times with binding delivery dates. Our product designs are a perfect fit thanks to extensive technical testing of product requirements. The combination possibilities: almost unlimited, but individual in every case. Worldwide on-site support by our service technicians guarantees you support at any time during the ongoing production or a product changeover.

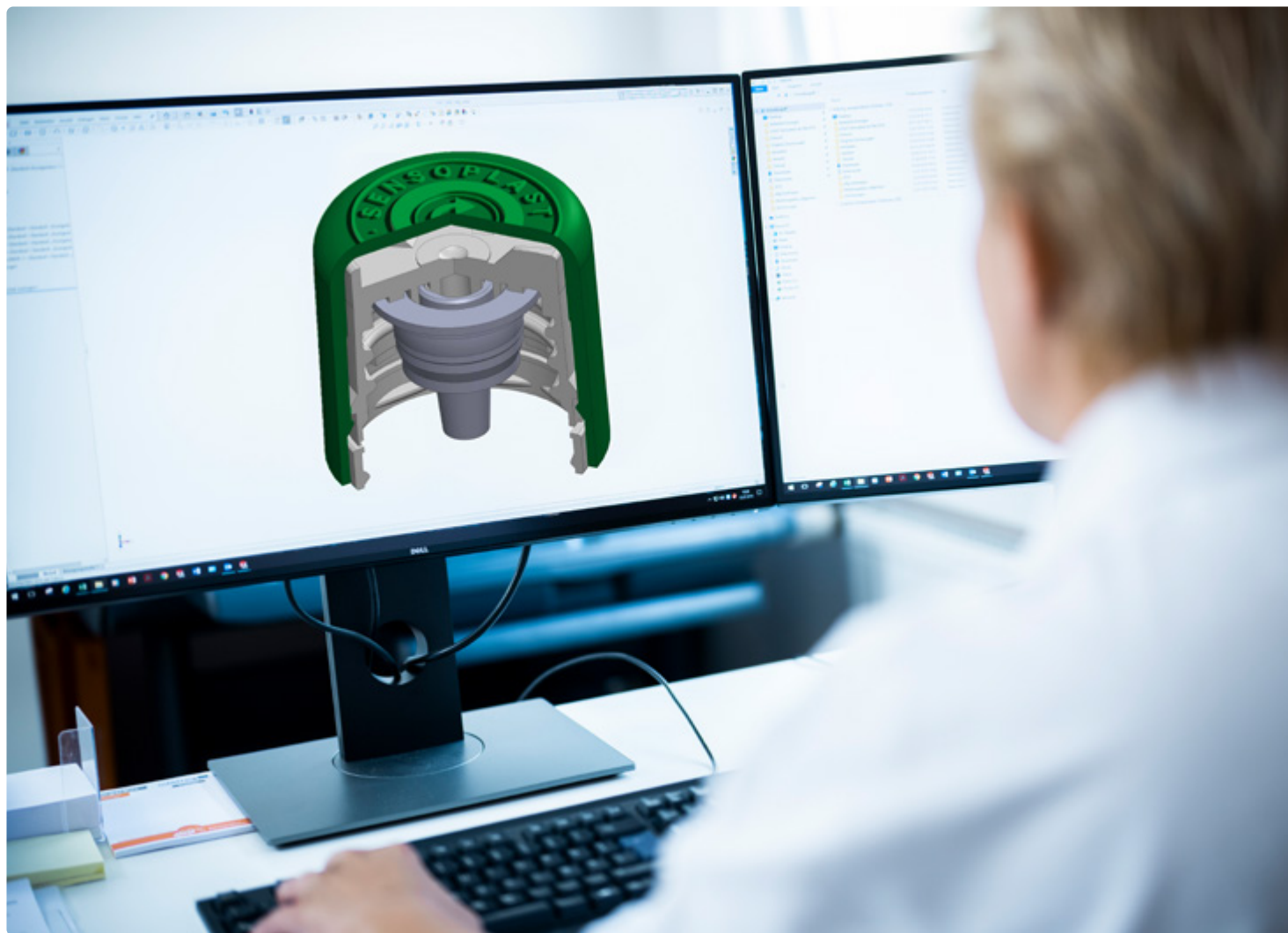
All production-relevant processes are fully documented by us - from batch tracking of the individual components to shipment of the end product. The entire production process not only meets the highest requirements for pharmaceutical primary packaging, it is based on them. Excellent hygiene standards included.

The SENSOPLAST® quality management system is certified according to the international standards DIN EN ISO 9001 and DIN EN ISO 15378. Our customers can be assured that all quality-related requirements are met, from manufacturing to assembly and packaging, incorporating the highest quality standards.

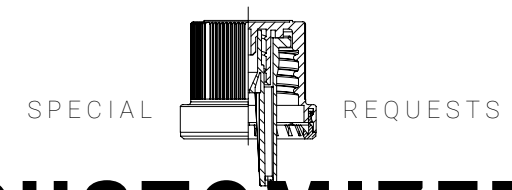
CERTIFICATES - DIN EN ISO 9001 & DIN EN ISO 15378



Scope: Development, manufacturing and distribution of pharmaceutical primary packaging materials.



EXCLUSIVE DESIGN OPTIONS
Customized logo, shape & color



SPECIAL REQUESTS

CUSTOMIZED SOLUTIONS

3 SIMPLE STEPS

Customer requirements



- What kind of liquid?
- Physical properties?
- Dosing requirement?
- Closure system requirement?
- Which certifications are required?

Development + Production



Our approach is based on clearly defined factors. Thanks to our many years of experience and expertise, we are able to create the right product range for your specific liquid, even at short notice.

In addition, we offer our customers professional dosing trials free of charge.

Delivery



- You will receive your product with all necessary technical requirements at the agreed delivery times
- Special requests in terms of shape, color and finishing are also possible on request



ADVANTAGES

- Short delivery times with binding delivery dates
- Individual and personal advice with fixed contact persons and fast response times
- Professional documentation of all quality-related requirements, e.g. for certificates, declarations of conformity, etc.
- Extensive technical review of requirements and recommendation of optimal products
- Worldwide on-site support during ongoing production or during changeover to new closure systems by our qualified service technicians

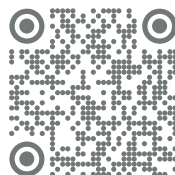


GUARANTEE





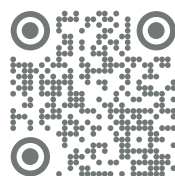
WE STAY IN CONNECTION



LINKED IN

Keep track of industry-specific News and SENSOPLAST® company news.

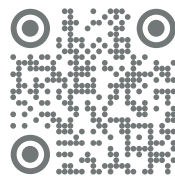
[linkedin.com/company/sensoplast](https://www.linkedin.com/company/sensoplast)



TWITTER

Up-to-the-minute information about the plastics industry and interesting facts about SENSOPLAST®.

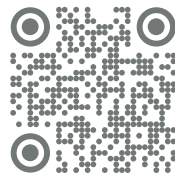
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FACEBOOK

Get regular insights into company and development news on our company account.

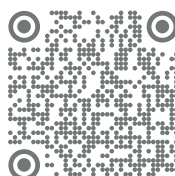
[facebook.com/sensoplast](https://www.facebook.com/sensoplast)



INSTAGRAM

On our Instagram page you can find photos and videos informing you about the Company news.

[instagram.com/sensoplast/](https://www.instagram.com/sensoplast/)



YOUTUBE

Impressions of our products in the form of corporate, manufacturing and product videos as well as expert tips will follow shortly.

tinyurl.com/yt-sensoplast

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