

PACKAGING FOR
**LABORATORY
DIAGNOSTICS**
HEALTH TECHNOLOGY
CHEMICAL & PHARMACEUTICAL PRODUCTS

SICHER. GUT. VERPACKT. SAFE PACKAGING



Reliable Supply Chains.
Reliable Packaging.
MADE IN GERMANY

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FOR MORE THAN 40 YEARS
SICHER. GUT. VERPACKT.

Ströbel



YOUR GERMAN PACKAGING MANUFACTURER

For over 40 years we have been producing **custom tailored bags and pouches, covers and liners made from high quality film** for the medical and pharmaceutical industry. Our successful family run business was founded by Gerhard and Gerlinde Ströbel. Today it is run by their son Rainer Ströbel, who has shaped the company into a future-ready business with new products and innovations..

TAILOR-MADE PRODUCTION

With our large, modern machine park, we are able to produce bags, pouches, liners and covers to perfectly suit and protect your products.

REGIONAL & FLEXIBLE

Our in-house production, German and European standards, certifications and suppliers guarantee flexibility & reliability even in times of crisis.

QUALITY „MADE IN GERMANY“

We produce high-quality packaging for anti-corrosion and aroma preservation applications. Therefore we focus on premium quality materials and regional supply chains.

EXPERT ADVICE

Whether on the phone or on-site at your production facility: together we will find the right solution for your packaging needs.

PACKAGING FOR LABORATORY, DIAGNOSTICS, CHEMICAL, PHARMACEUTICAL & HEALTH TECHNOLOGY PRODUCTS

RELIABLE SOLUTIONS

With decades of extensive experience, we can provide reliable packaging solutions for health technology, pharmaceutical and diagnostics applications, such as:

Test kits for in-vitro-diagnostics and **clinical diagnostics**, testing devices for medical laboratories, ventilators, health technology products, pharmaceutical powders, granules and additives, food, dietary supplements, etc.

QUALITY, SAFETY AND HYGIENE

... are indispensable when it comes to packing highly sensitive products.

We guarantee that all of our bags and coverings are **free from hazardous substances**. In our Bavarian production plant we adhere to all current hygiene standards.



All of the raw materials we use are qualified, tested and sourced from German or European suppliers. During the production process, our bags undergo regular quality controls.

The Ströbel company is ISO:9001 certified. We comply with many additional ISO, DIN and even military standards. Safety and technical data sheets are available for all of our products.

PROTECTIVE, SAFE PACKAGING

Protect your products against

- ✓ humidity
- ✓ ultraviolet light
- ✓ surrounding air
- ✓ dirt & contamination
- ✓ mechanical effects

Ströbel packaging can be

- ✓ customised, printed and labeled



PHARMA BESTSELLER ALU-LINE BAGS & POUCHES

VERSATILE PROTECTION

Ströbel premium aluminium composite film provides **optimum protection** against moisture, UV light, contamination, mechanical influences and retains its shape very well. Our ALU-Line film forms a **barrier layer** that provides protection from the outside climate. Any remaining humidity in the packaging is regulated by optional desiccants. This method **does not release any chemical agents** and can be used for almost all products.



ALU-Line white, 2-seam flat bags, tear notch, 4 colour + pantone print



ALU-LINE QUICK CHECK

PROTECTION AGAINST	FEATURES	APPLICATIONS	IDEAL FOR
<ul style="list-style-type: none"> ★★★★ dust, dirt ★★★★ uv light ★★★★ spray water ★★★★ loss of aroma ★★★★ moisture ★★★★ corrosion ★★★ temperature fluctuations ☆☆☆ electrostatic discharge 	<ul style="list-style-type: none"> ★★★★ corrosion protection up to 10 years ★★★★ aroma protection ★★★★ food-certified ★★★★ water vapour barrier ★★★★ weldable ★★★★ temperature resistant ★★★★ printable ★★★★ can be labelled ★★★★ leakage barrier ★★★★ puncture resistant ★★★ vacuum-capable, gas-tight 	<ul style="list-style-type: none"> ★★★★ parts ★★★★ bulk material ★★★★ granulate & powder ★★★★ pasty goods ★★★★ retail / POS ★★★★ shipping ★★★★ overseas transport ★★★★ storage ★★★★ long term storage ★★★ liquids 	<ul style="list-style-type: none"> ★★★★ food products ★★★★ pharma, medical ★★★★ chemical industry ★★★★ machine construction ★★★★ metal construction ★★★★ mould making ★★★★ military, aviation, space travel ★★★★ high-tech, technology ☆☆☆ ESD electronics

★★★★ very good ★★★ good ★★ moderate, conditional ☆☆☆ no; not recommended

All info & data applies to optimal conditions.

ADVANTAGES FOR PHARMACEUTICAL APPLICATIONS

- ✓ compliant with TL 8135-0003, DIN 55 531, MIL-PRF-131-J, EU-regulation 1935/2004 and 10/2011 (food safe) (depending on film type)
- ✓ water vapour resistant
- ✓ moisture-repellent
- ✓ sterilisable
- ✓ robust and versatile



reliable moisture protection with Ströbel desiccants >> page 22

ALU-LINE BAGS CONFIGURATION

YOUR PERFECT PACKAGING

Safe, hygienic and brand-able...

We will work out the perfect bag or pouch for your product: in your specified shape, size, colour and with customised options! Perfectly fitting your pharmaceutical, chemical or medical application. Whether liquid, pasty, solid, aroma-containing, bulky, moisture- and light-sensitive products, we have the right combination for you.

SHAPES



STAND UP POUCHES

stable stand, optionally with zipper, ideal retail packaging, for individual parts, bulk items ...



SIDE GUSSET BAGS

the classic, good shape retention, space-saving at POS, ideal for individual parts, bulk items, small devices ...



FLAT BAGS

flat lying, optionally with zipper, easy handling, fully automatic filling possible, for flat products, individual parts ...



MULTI-CHAMBER BAGS

separating content, partial withdrawal, for multi-component systems, kits, set articles, sample packs ...



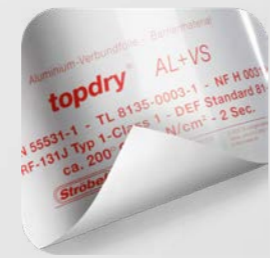
SMALL BOX LINERS (BOX BOTTOM)

liners for smaller boxes, crates, load carriers and cartons - in large quantities



FILM ROLLS & CUTS

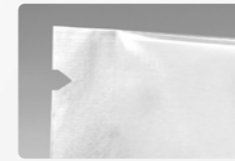
you can also purchase our films as wholesale rolls or as custom cuts



SPECIAL FORMS

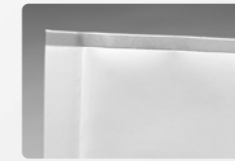
bags on perforated rolls, tubular films, special solutions ... just ask your Ströbel expert

OPTIONS FOR ALU-LINE BAGS & POUCHES



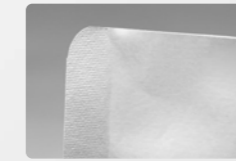
TEAR NOTCH

easy to open



LIP

easy filling due to protruding lip



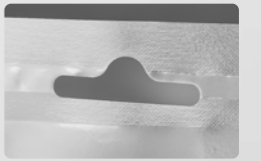
ROUNDED CORNERS

stylish, round corners



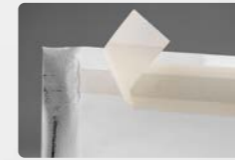
ZIPPER

easy resealing



EURO-HOLES

easy to hang up at retail



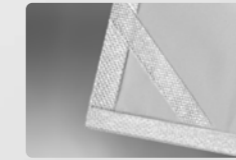
SELF-ADHESIVE SEALING

adhesive strips for easy closure



VALVE

pressure relief valve for out-gassing products or vacuum valve for vacuum drawing



K-SEALING

better stability for gusseted bags, residue-free emptying



HOT STAMPING

cost-effective bag printing (partial, monochrome)



MULTICOLOUR PRINTING

printing with 4C or up to 8 spot colours (minimum quantity)

WHAT FITS TOGETHER?

Our manufacturing options are dependent on the type of bag.

	flat bags				stand up pouches	side gusset bags	
	2 seams	3 seams	rear seam	multi chamber	stand up bottom	5 seams	rear seam
zipper	✓	✓		✓	✓		
self-adhesive sealing	✓	✓					
tear notch	✓	✓		✓	✓		
rounded corners		✓			✓	✓	
euro-holes	✓	✓		✓	✓		
lip	✓	✓		✓	✓		
k-sealing						✓	✓
valve	✓	✓		✓	✓	✓	
hot stamping ¹	✓	✓	✓	✓	✓	✓	✓
multicolour printing	✓	✓	✓	✓	✓	✓	✓

¹ monochrome, different colours available

ALU-LINE BAGS PRINTING & COLOUR

FILM COLOUR

Aluminum composite film is available in almost any colour. Our standard colour is ALU SILVER. Special colours are available subject to a minimum order quantity*. Some variants of our ALU-Line film are **available from stock** in white, black and gold.



* approx. >10.000 (dependent on bag size)

24 HOURS DELIVERY SERVICE FOR UNPRINTED BAGS

When time is of the essence, we offer our Ströbel **24 hours delivery service** for our stock items.

Just ask for our price list for **ALU Line flat bags with and without zipper**.



YOUR LOGO AND PRINT



We give your ALU-Line BAGS & POUCHES a uniquely branded design according to your specifications. Our printing processes in **4c full colour or up to 8 spot colours** are ideally suited for pharmaceutical and food packaging. Our **monochrome hot stamping** printing technique is a more basic, but cost-effective alternative to full colour printing.

Ströbel ALU-Line BAGS & POUCHES can of course also be **labelled**.

FULLY RECYCLABLE MONO-LINE



NEW: Fully recyclable packaging by Ströbel. Made in Germany.



MONO-LINE - THE SUSTAINABLE ALTERNATIVE

Our new Ströbel MONO-Line is the environmentally friendly alternative to existing packaging. It is fully recyclable. After use, the end consumer can easily dispose of the new Ströbel MONO-Line bags in the recycling bin.

The gained regenerate can be reintroduced into the plastic value chain.

MONO-LINE QUICK CHECK

PROTECTION AGAINST	FEATURES	APPLICATIONS	IDEAL FOR
<ul style="list-style-type: none"> ★★★★ dust, dirt ★★★★ uv light ★★★★ spray water ★★★★ loss of aroma ★★★ moisture ★★ temperature fluctuations ★★★ corrosion ★★★ electrostatic discharge 	<ul style="list-style-type: none"> ★★★★ aroma protection ★★★★ food-certified ★★★★ weldable ★★★★ temperature resistant ★★★★ can be labelled ★★★★ leakage barrier ★★★★ puncture resistant ★★★ printable ★★★ water vapour barrier ★★★ corrosion protection ★★★ vacuum-capable, gas-tight 	<ul style="list-style-type: none"> ★★★★ parts ★★★★ bulk material ★★★★ granulate & powder ★★★★ pasty goods ★★★★ retail / POS ★★★★ shipping ★★★★ storage ★★★ overseas transport ★★★ liquids ★★★ long term storage 	<ul style="list-style-type: none"> ★★★★ pharma, medical ★★★★ chemical industry ★★★★ food products ★★★ machine construction ★★★ metal construction ★★★ mould making ★★★ military, aviation, space travel ★★★ high-tech, technology ★★★ ESD electronics

★★★★ very good ★★★ good ★★ moderate, conditional ★ no; not recommended

All info & data applies to optimal conditions.

OPTIONAL VIEWING WINDOW*

Our MONO-Line film offers the option to produce a partially transparent bag, which gives customers a view of the packaged goods. The transparent window allows for optimal presentation of your product.

* minimum quantity



MONO-LINE „MADE FOR RECYCLING“

„MADE FOR RECYCLING“ CERTIFIED FOR SUSTAINABILITY

Added value for your customers

With our Ströbel MONO-Line and the “Made for Recycling” seal from Interseroh, you can show your customers that you value a functioning circular economy, take responsibility for **climate protection and promote resource conservation**. Consumers prefer environmentally friendly packaging as well as recyclability. With the “Made for Recycling” seal from Interseroh, you emphasise your commitment **to sustainability and environmental protection**.

At Interseroh, your packaging goes through an independent certification process in which your final packaging is evaluated. The good news: Ströbel MONO-Line was **certified as GOOD with 18 out of 20 points**.



WHAT DOES SUSTAINABILITY MEAN TO STRÖBEL?

Made in Germany

Sustainability at Ströbel stands for short transport routes for raw materials. Fabrication on site in Germany under controlled conditions. Compliance with German and European standards for products, employees and the environment. Flexibility & reliability even in times of crisis. We produce approx. 45% of our required electricity ourselves through our own photovoltaic lines.

Recyclability

Not made from what... but where it is going?
Our focus here is on the recyclability of the material. Not on the material itself.

Why?

We find it is far more sustainable that materials can be recycled after their first use - rather than using food based films (such as sugar cane, corn) to produce packaging.



MONO-LINE SHAPES



STAND UP POUCHES

stable stand, optionally with zipper, ideal retail packaging, for individual parts, bulk items ...



SIDE GUSSET BAGS

the classic, good shape retention, space-saving at POS, ideal for individual parts, bulk items, small devices ...



FLAT BAGS

flat lying, optionally with zipper, easy handling, fully automatic filling possible, for flat products, individual parts ...



MULTI-CHAMBER BAGS

separating content, partial withdrawal, for multi-component systems, kits, set articles, sample packs ...

OVERVIEW BAGS & POUCHES ALL MATERIALS

For simplicity, we only show flat bags here. Of course, most films are also available as gusseted bags, stand-up pouches, multi-chamber bags, block-bottom bags, special cuts and as roll material.



ALU-LINE ALUMINIUM COMPOSITE

our bestseller; cost-efficient, strong, comprehensive protection for all materials for up to 10 years; food & pharma certified; safe and reliable



MONO-LINE FULLY RECYCLABLE

our new, eco-friendly, recyclable alternative made from an innovative mono-material composite; advanced, sustainable protection for the future



ÖKO-LINE PAPER COMPOSITE

our paper-composite protects flavour, coffee & food in style; attractive at the POS; more environmentally friendly; without aluminium



VCI-LINE METAL PROTECTION

protect metal parts with VCI technology; without oil or grease; easy to use, 3 premium films, high working safety



ESD-LINE SHIELDING

premium shielding ESD protection for sensitive electronics, first-class shielding from electrostatic discharge



ESD-LINE EMI-SHIELDING

premium EMI-shielding ESD protection & EMI moisture protection for sensitive electronics, up to 5 years corrosion protection



ESD-LINE ANTISTATIC – PINK

minimal charging, gentle potential equalization, for insensitive electronics and components



ESD-LINE ANTISTATIC – BUBBLE WRAP

dissipative padded ESD protection for insensitive electronics



INTERCEPT® 2 HIGHTECH PROTECTION

high-tech corrosion protection based on highly porous copper particles, easy to use, up to 2 years protection, for all materials



STATIC INTERCEPT® HIGHTECH PROTECTION

high-tech corrosion protection & ESD protection in one product, easy to use, up to 15 years protection, for all materials



INTERCEPT® R.I.B.S. HIGHTECH PROTECTION

high-tech corrosion-, moisture- and ESD-protection in one product. easy to use, up to 15 years protection, for all materials



ESD-LINE CONDUCTIVE – BLACK

volume conductive ESD protection for insensitive electronics



PE-LINE LDPE

basic LDPE polyethylene protection, for short distances, limited corrosion protection with Ströbel desiccants



PE-LINE PET / PE

PET-PE bags are transparent, food-safe, printable and, unlike simple PE bags feature stable standing



PE-LINE PA / PE

ideally suited for vacuum packaging of food, medical products, industrial and consumer goods.

MEDICAL TECHNOLOGY COVERS & LINERS



PREMIUM PROTECTION WITH ALU LINE COVERS

Your high-quality products deserve packaging that stands up to all environmental conditions. Our covers and liners provide corrosion protection and are suitable for long-term storage of individual parts, bulk items, machinery, heavy and bulky goods. Whether your goods are transported by road, sea or air, we have just the right transport packaging for your medical goods. **Sicher. Gut. Verpackt. Ströbel.**

SHAPES



BOX COVERS

sealable cover for on pallet packing with optional bottom sheet
from 1 piece



CRATE LINERS

liners for crates, boxes, load carriers and cartons
from 1 piece



SMALL BOX LINERS

liners for smaller boxes, crates, small load carriers and cartons
from approx. 500 pieces (size dependent)
cost effective for bulk orders



SIDE GUSSET COVERS/LINERS

covers for industrial goods or as liners for crates, boxes, load carriers and cartons
from approx. 200 pieces (size dependent)
cost effective for bulk orders



1

piece

minimum quantity for many forms



10 years

max. corrosion protection

with Ströbel topdry® desiccants;
(under optimal conditions)



yes

made in Germany

tailor-made for you



COVER / LINER PRODUCTION



FILM PRODUCTION



TAILOR MADE



CORROSION PROTECTION



MOISTURE PROTECTION



BASIC PROTECTION



LONG-TERM STORAGE



CONTAMINANT FREE



TEMPERATURE RESISTANT



COMPREHENSIVE SERVICE



QUICK & FLEXIBLE



STORAGE SERVICE



FILM ROLLS & CUTS

you can also purchase our ALU-Line film as wholesale rolls or as custom cuts



SPECIAL SHAPES

perforated rolls, tubular films, special solutions...? Just ask your Ströbel expert



CONTAINER LINERS

complete liners for air freight, 20' and 40' shipping containers
from 1 piece

CORROSION PROTECTION THE DESICCANT METHOD



**BARRIER FILM
+ DESICCANTS**

HOW IT WORKS

Our strongest **aluminium composite + Ströbel topdry desiccants** optimally protect laboratory and medical technology from moisture and corrosion.

The interaction of desiccants and the barrier film ensures a dry and artificial micro-climate with a relative humidity of less than 40 % inside the packaging. When used correctly, this reliably prevents condensation and corrosion.

STRÖBEL PREMIUM DESICCANTS

... are the ideal companion for our bags and covers. They offer powerful protection and do not contain any contact corrosive or water soluble adsorbents. They protect your high-quality medical products, e.g. laboratory electronics, medical technology, industrial goods, medicines, pharmaceuticals, natural products, food, etc. Your products are also optimally protected during interim storage, long-term storage and overseas transport.

THE RIGHT DESICCANT FOR ANY APPLICATION



STRÖBEL TOPDRY®

powerful protection for small PUs to sea freight containers, 6g to 1kg filling quantity with bentonite, according to DIN 55 473, made in the EU



MINIPAX®

small & indestructible, for small PUs, versatile fillings: silica gel, molecular sieves or indicator blue gel; with viewing window, space saving without seams, FDA certified



MICROBAGS

small & cost effective, for small PUs, silica gel, according to EU regulations, made in the EU, FDA certified

RECOMMENDED ACCESSORIES



HUMIDITY INDICATOR CARDS

measure & monitor humidity inside the packaging



HEAT SEALING TONGS

professional sealing of heat-sealable film; easy to operate; sealing-time adjustable; fast start-up time



TRANSPORT MONITORING

data-loggers, shock and tilt indicators; monitor the transport conditions of your valuable products

OVERVIEW COVERS & LINERS

ALL MATERIALS



For simplicity, we only show box covers here. Of course, almost all films are also available as liners, side gusseted bags, container liners, block bottom bags, special cuts and as rolls.



ALU-LINE ALUMINIUM COMPOSITE

our bestseller; cost-efficient, strong, comprehensive protection for all materials for up to 10 years; food & pharma certified, safe and reliable



VCI-LINE METAL PROTECTION

protect metal parts with VCI technology; without oil or grease; easy to use, 3 premium films, high working safety



INTERCEPT@ 2 HIGHTECH PROTECTION

high-tech corrosion protection based on highly porous copper particles, easy to use, up to 2 years protection, for all materials



STATIC INTERCEPT@ HIGHTECH PROTECTION

high-tech corrosion protection & ESD protection in one product, easy to use, up to 15 years protection, for all materials



ESD-LINE EMI-SHIELDING

premium EMI-shielding ESD protection & EMI moisture protection for sensitive electronics; up to 5 years corrosion protection



ESD-LINE ANTISTATIC - PINK

minimal charging, gentle potential equalization, for insensitive electronics and components



ESD-LINE ANTISTATIC - BUBBLE WRAP

dissipative padded ESD protection for insensitive electronics;



ESD-LINE CONDUCTIVE - BLACK

volume conductive ESD protection for insensitive electronics



PE-LINE LDPE

basic LDPE polyethylene protection, for short distances, limited corrosion protection with Ströbel desiccants



BUBBLE WRAP THERMO ISOLATION

insulating thermo padding protection for temperature sensitive products, popular in addition to our ALU-Line covers



BUBBLE WRAP TRANSPARENT

simple padding protection for products sensitive to scratches and smaller impacts, popular in addition to our ALU-Line covers

YOUR ADVANTAGE THE STRÖBEL GUARANTEE

RESPONSIBLE, REGIONAL MANUFACTURING

MADE IN FRANCONIA, GERMANY

„Our **in-house production, German and European standards**, certifications and supply chains guarantee: our ALU-Line and MONO-Line and BAGS, COVERS AND LINERS are free of dangerous toxins, child labour and bad working conditions. No need to worry about inferior protective films and consequential damage to your valuable goods and products. The **barrier properties** of our films are guaranteed. Our focus on regional supply chains means **flexibility and reliability even in times of crisis**. In addition, our MONO-Line has been awarded the “Made for Recycling” seal.“



Yours sincerely, Rainer Ströbel
CEO Ströbel GmbH

ALU-LINE BAGS, COVERS & LINERS

We guarantee the following manufacturing conditions:

ORIGIN

bag & pouch production



film production



sales & distribution



ECOLOGY

regional production (Ströbel)
regional supply chains
NO far-east import
short transport routes
two large on-site solar power plants

SUSTAINABILITY

environmental standards



labour conditions



human rights



CONTAMINENT-FREE

no risks of far-east goods
certified for food
bis-phenol A free
silicone free
latex free
phthalates free

STANDARDS

TL 8135-0003
DIN 55 531
MIL_PRF-131-K
EU regulation 1935/2004 & 10/2011
(food compliant)

CERTIFICATES

ISO 9001
Bavarian environmental pact
honourable merchant
Ecovadis (bronze)
quality network of environmentally conscious companies

MONO-LINE BAGS

We guarantee the following manufacturing conditions:

ORIGIN

bag & pouch production



film production



sales & distribution



ECOLOGY

fully RECYCLABLE
regional production (Ströbel)
regional supply chains
NO far-east import
short transport routes
two large on-site solar power plants

SUSTAINABILITY

environmental standards



labour conditions



human rights



CONTAMINENT-FREE

no risks of far-east goods
certified for food

STANDARDS

DIN 53122
DIN 53370
ASTM D 3985/02
EU regulation (food compliant)
compliant
FDA compliant

CERTIFICATES

ISO 9001
Bavarian environmental pact
honourable merchant
Ecovadis (bronze)
quality network of environmentally conscious companies



Ströbel



ADMINISTRATION & WAREHOUSE MÜHLSTEIG



MANUFACTURING & WAREHOUSE WASENMÜHLWEG




PRODUCTION - SEAM SEALING



PRODUCTION - FINISH LINE



QUALITY CHECK - SEAM STRENGTH



COVER PRODUCTION - 40-FOOT CONTAINER LINER

A L W A Y S
THERE FOR YOU



Feel free to contact us
should you require further information.

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I N F O

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