



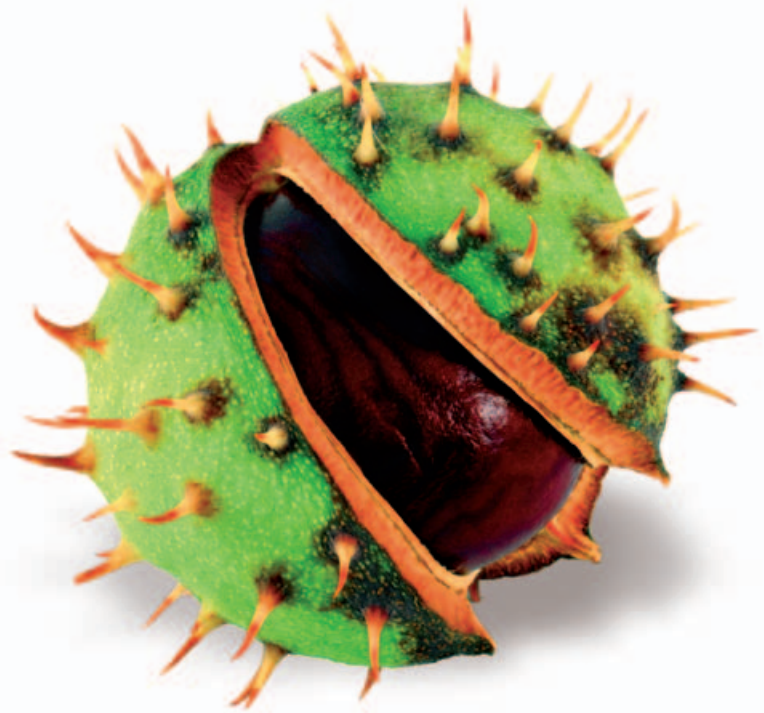
VACUFOL®
CREATING THE BETTER FILM



VACUFOL

VACUshrink
VACUflex
VACUpouch

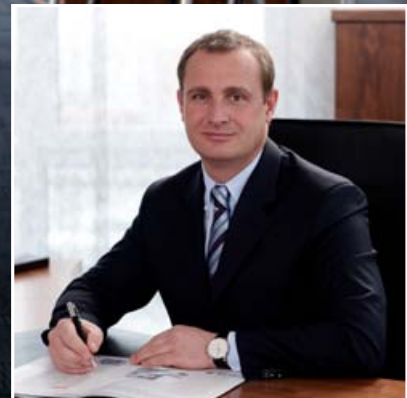




CREATING THE BETTER FILM



VACUFOL



COMPANY

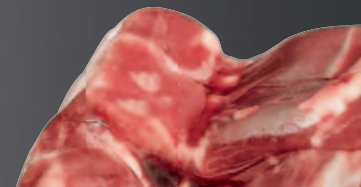
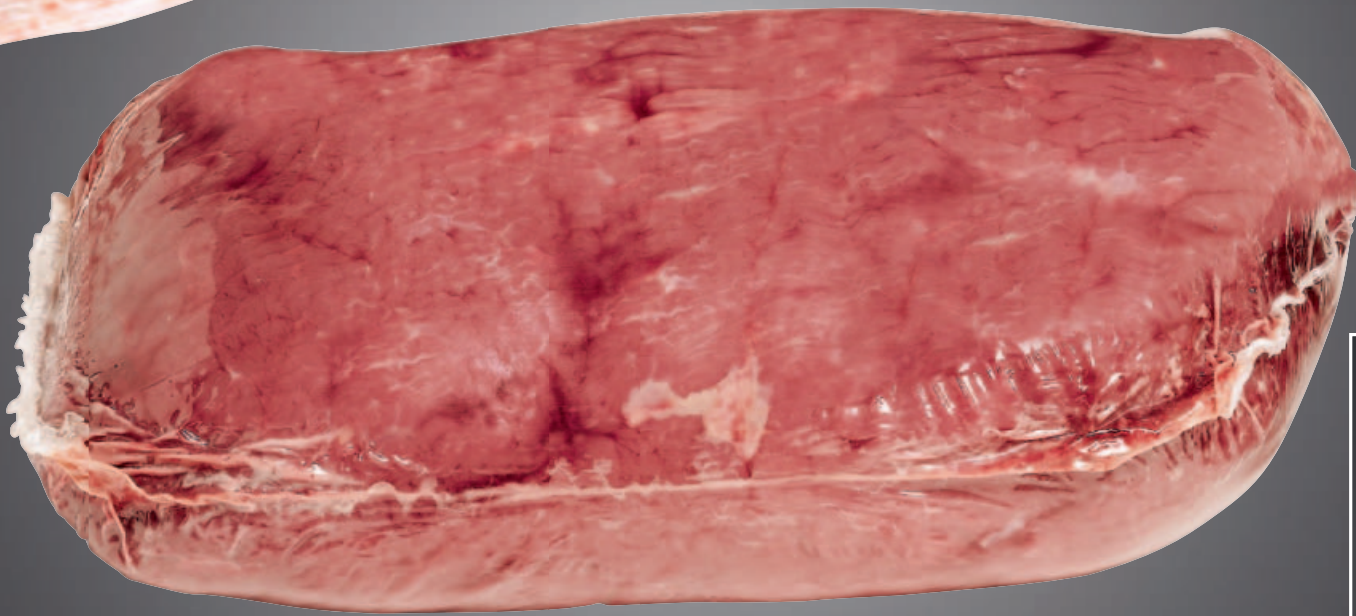
VACUFOL AG is a family company located in Bad Grönenbach in Allgäu, Germany. We are specialized in the packaging requirements of the food and pharmaceutical industry and produce EVOH-based shrink films and shrink bags (VACUshrink), PP/PA-EVOH-PA/PE lidding- and thermoforming films (VACUflex) and vacuum pouches (VACUpouch).

It is important for us that our production processes comply with today's demands for environmental protection and sustainability. VACUFOL AG fulfills all major national and international quality certifications and hygiene regulations for the food and pharmaceutical industry.

- Our aim is to offer products and services that are innovative and modern, and to give our customers exactly the kind of support that meets their high quality expectations. In the interest of our customers, we give priority to the use of superior technology and cooperation with the best of partners.
- We maintain an open and healthy company culture and strive to promote the individual capabilities of each employee. This allows us to work with a strong, professional team that tirelessly tackles any new challenge.
- In all of our company's activities – environmental protection, human health and safety, and preservation of natural resources obtain top priority.
- We continuously strive to invest in the latest technology and R&D so that we meet our customers' expectations.

“Creating the better film” is therefore not only a product slogan for us, but a daily challenge for all of our employees to consistently implement the company philosophy through their individual performance.





MARKETS AND PRODUCTS

VACUFOL AG is specialized in the packaging requirements of the food and pharmaceutical industry and produces EVOH-based shrink films and shrink bags (VACUshrink), PP/PA-EVOH-PA/PE lidding- and thermoforming films (VACUflex) and vacuum pouches (VACUpouch). Particularly for the food industry, we offer a large variety of packaging films for multifarious uses. The following products are of special note:

VACU*shrink* VACU*flex* VACU*pouch*

VACUshrink SB-FM45 shrink bags are excellently well suited for packaging meat products without bones or processed meat and sausages in general.

VACUshrink SB-BG "Bone Protection Bag" shrink bags fulfill all criteria for the packaging of meat products with sharp or sharp-edged bones.

VACUflex thermoforming films are also excellently suited for packaging meat pieces or processed meat and sausages in general. With a maximum thickness of 350 µm, these films are characterized by high barrier properties and extremely high puncture resistance. They are also highly transparent and of high gloss.

Product properties of **VACUshrink** and **VACUflex**:

- EVOH barrier
- High transparency and gloss
- Excellent puncture resistance
- Overlapping seal (VACUshrink)
- High shrinkability of over 45% (VACUshrink)





CO-EXTRUSION TECHNOLOGY

VACU*shrink*

9-layer EVOH shrink technology

- Shrink films with EVOH barrier
- Excellent transparency and gloss
- High shrink ability of over 45%
- Overlapping seal
- Extremely high puncture resistance

VACU*flex*

7-layer "waterquench" technology

- High barrier PP/PA-EVOH-PA/PE thermoforming films
- Excellent transparency and high gloss
- High mechanical stability
- Improved thermoforming properties



VACUFOL AG continuously invests in modern production facilities. Complex technologies, such as co-extrusion systems with water cooling, help us to develop ever new packaging solutions for our customers from the food and pharmaceutical industry. At our site in Bad Grönenbach in Allgäu (Germany), we use a system of several blown film co-extrusion lines for the production of flexible packaging films, VACUshrink shrink films and VACUflex PP/PA-EVOH-PA/PE thermoforming films. In selecting the latest technology for our production, we always consider the environment and sustainability.

Bag converting

In addition to our production of the VACUshrink shrink films and VACUflex thermoforming films, we process our VACUshrink and VACUflex films to shrink bags and vacuum pouches at our second plant in Wildpoldsried in Allgäu. Through the use of the most modern bag converting machines, we are able to offer a large range of VACUshrink shrink bags and VACUpouch vacuum pouches, readily deliverable from stock.

VACUshrink SB shrink bags

You can obtain our VACUshrink shrink bags in all standard dimensions. The bags are available in several types on a roll or in loose-fill and taped.



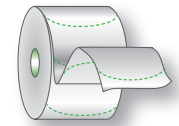
Bottom seal round (BSR)



Bottom seal straight (BSS)



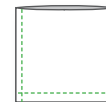
Side seal (SS)



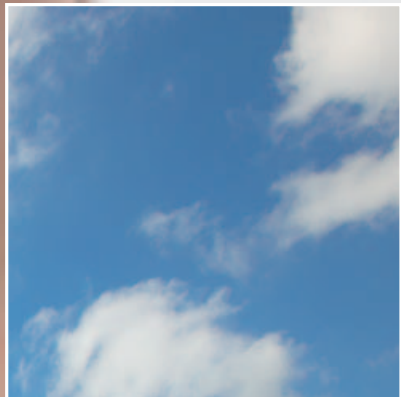
Perforated on a roll (POR)

VACUpouch and VACUpouch CP90 vacuum pouches

VACUpouch the PA/PE vacuum side seal pouch is offered in the standard thicknesses of 70, 90, 120, 150 and 170 μm . For the fast growing sous vide market of gentle cooking in vacuum pouches, we deliver the VACUpouch CP90 with the required thicknesses for this application of 90 μm .



Side seal pouch



All applications in the food and pharmaceutical industry are subject to strict quality criteria. The films produced by VACUFOL AG fulfill all national and international guidelines. At our site in Bad Grönenbach we are BRC/IOP, Kosher and DIN ISO 9001 certified.

To fulfill the high demands of the food and pharmaceutical industry, we have strict hygienic standards at our site in Bad Grönenbach:

- Complete division between production, raw material storage and end storage
- Entry to production only through security doors
- Epoxy resin floors in all working areas of production
- Displacement ventilation for controlled air temperature throughout the year





Laboratory

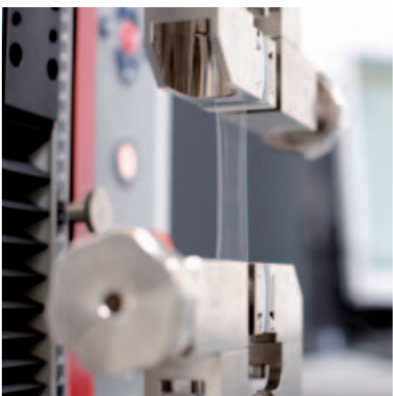
Our work and production conditions fulfill the highest hygienic standards. At the same time, our thorough tests and our fast and reliable analyses ensure that the films maintain their high quality. With our newly constructed building, we aim to set whole new standards for this. In our high-quality laboratory, we continuously carry out the following analyses and measurements:

- Oxygen permeability
- Carbon dioxide- and water vapor permeation
- Layer structure and thickness measurement
- Puncture resistance
- Tear-resistance test
- Shrink measurements
- Seal edge stability

For other special tests, VACUFOL AG works together with renowned, external testing laboratories.

Development

At our site in Bad Grönenbach, we have invested into the latest blown film co-extrusion technology. This equips us for the future and allows us to continuously develop new products for the food- and pharmaceutical industry. Close communication with our customers is also important to us: your valuable knowledge regarding the behavior of end consumers contributes to the development of each of our new products.





SUSTAINABILITY

As a company located in Allgäu, sustainability is of great importance to us. Already at the planning and structuring of our company, aspects of sustainability were a focal point of consideration and we have continued to put the knowledge and opportunities gained through this into practice. VACUFOL AG practices the following sustainability measures:

- Heat recovery
- Exhaust air treatment
- Constant climate control

EVOH barrier rather than PVDC

We view our use of the most modern co-extrusion facilities as a significant step in the direction of sustainability. With these facilities, we produce all of our flexible films with fewer materials but with better resulting properties than with the usual facilities. Our VACUshrink (shrink bags) are exclusively produced with EVOH as a barrier layer. They are therefore PVdC / chlorine free and are not irradiated via special methods.





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