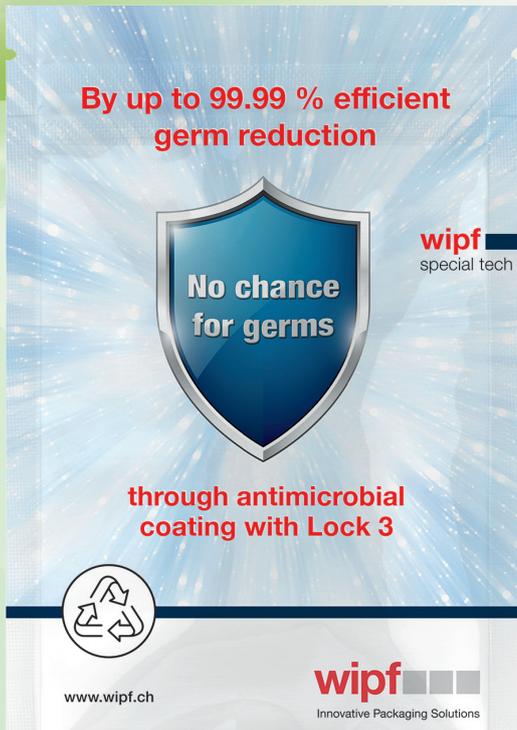


Flash



ALWAYS READY FOR NEW CHALLENGES

Innovative and Sustainable Packaging from Wipf

Innovation ■ Antimicrobial Lacquer for Flexible Packaging Products ■ Special Solutions for Demanding Requirements
Sustainability ■ Packaging from Sustainable Mono-Material

Dear Customers



Two years have already passed since the last publication of the Flash. Two years with one dominant theme: Covid-19. Certainly, the negative aspects of the pandemic will keep us busy for longer than we would all like. On the business side, it is now the supply bottlenecks and all-time high prices for raw materials, which make it difficult for us to supply you as usual.

Have you also asked yourself what lessons you will take away from this crisis? For me personally there are two:

One is the importance of personal relationships. It is not a given that we can always maintain them as we would like to. This is true not only in the personal but also in the business environment. Particularly with the current supply bottlenecks, it is paramount to closely coordinate demand with you and our suppliers. Relationships based on partnership help us a great deal in this respect.

On the other hand, this less busy period also gave us an opportunity to reflect on what is important in our daily work. I am convinced that we need to focus even more than before on sustainability in all aspects! During the pandemic, plastics has proven itself to be an important CO₂-efficient material. However, we can make flexible packaging even more sustainable and we need to communicate this to improve the awareness of the general public. Sustainability should not be understood as a single project that can be closed, but as a philosophy based on continuous improvement. Without this aspiration, any efforts would be ephemeral, fleeting and without effect, meaning the opposite of being sustainable.

That is why we were very busy during the pandemic with sustainable initiatives: 100 % of our electricity consumption is covered by natural power. We work on Lean Management initiatives throughout the company, to identify and reduce all unnecessary waste. We are training more than 20 apprentices, which is about 10 % of our workforce. We are investing in our buildings and production equipment, and we are continuously reducing energy consumption. And most importantly, we are constantly developing and improving our range of recyclable solutions. Packaging solutions with the „Made for Recycling“ label and increasingly also for stringent requirements such as retort applications.

As you read this Flash issue, you will learn more about how active we are. Enjoy the reading!

Sincerely,

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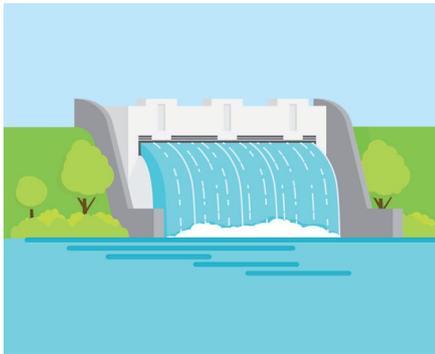
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100 % Natural Electricity In Volketswil and Nänikon

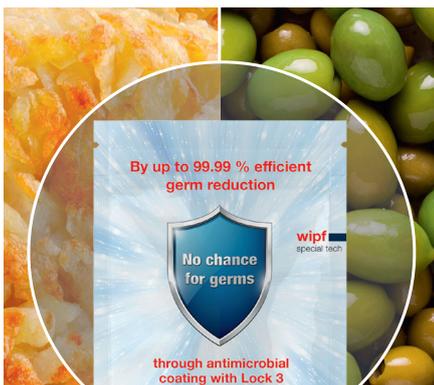
Since January 1st, 2021, Wipf AG has switched its entire electricity requirements at both sites to natural electricity. The production of all pouches and valves is now carried out with 100 % green energy from hydropower – the latest milestone in our corporate environmental policy.

With this project, Wipf AG is once again emphasizing the great importance of sustainability in the company – for more than 18 years now. That is for how long we have already continuously taken related actions in various areas throughout the company. This goes for the production processes as well as to the entire company. It ranges from refurbishment of buildings to technical conversion and upgrading to energy optimization. These are prerequisites for sustainable development and production of innovative packaging solutions.



Lock 3 – Now usable at High Temperatures!

The antimicrobial surface coating now also reduces the germ load by up to 99.99 % on retort pouches.



Trade Shows – We Are There!

Finally, back again: We are very much looking forward to

- > **FACHPACK 2021**
September 28-30, 2021, Nuremberg

One of the highlights: the expert panel on September 29th, 2021 at OPTIMA packaging group GmbH (Hall 3C, Booth 334). To the topic „Safely into the future – recyclable flexible packaging with hygienically clean surface and best product protection“, Markus Schulthess (Development Manager Wipf AG) and Melanie Hauser (Head of Sales Europe & Switzerland Wipf AG) will be at your disposal from 1 to 3 pm.



This is where we will present our packaging highlights in 2022:

- > **Aerosol & Dispensing Forum**
January 19-20, 2022, Paris
- > **Specialty Coffee Expo**
March 07-10, 2022, Boston

We look forward to welcoming you there.

WICOVALVE® Valves For Longer Freshness!



WICOVALVE® valves from Wipf for gas-generating filling goods are unique worldwide! The only ones to guarantee a constant functional quality over a period of 3 years! No other one-way valve can promise that. So far, they have mostly been used for roasted coffee (ground or beans), fresh ready meals, yeast dough, pasteurized products and granular products.

The three new valves W029, W129 and W629 with liquid-repellent filter for sauerkraut, kimchi, soy and products containing liquids now make filling even easier. Because they can be used with products containing liquids without restricting their functionality.

Available options for both thermal and ultrasonic sealing.

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NO CHANCE FOR GERMS

Antimicrobial Lacquer for Flexible Packaging!

In the packaging sector too, the current pandemic calls for rethinking of previous concepts and behaviors. Because packaging in particular passes through many hands, from the retailer to the end consumer. This favors the transmission of viruses and bacteria. Many hygiene concepts can only partly solve the problem of germ load on packaging surfaces and the resulting risk of infection.

A double challenge for the packaging industry: How to combine the best possible product protection and a reduction germ load on packaging surfaces?

The solution: a special antimicrobial lacquer of the surface. No problem on solid packaging surfaces such as paper and cardboard packaging. But so far unsuitable for surfaces of flexible bags and films.

Antimicrobial Coating with Lock 3

This is the challenge that Wipf AG has successfully solved with the Lock 3 antimicrobial lacquer for pouches and films. Its long-lasting antimicrobial effect works by means of photocatalysis. The principle is simple but ingenious: daylight or artificial light activates the ambient oxygen through a patented molecule, which washes around the cell envelopes of the germs and destroys them. In this way, up to 99.99 % of germs are rendered harmless. The effect has been tested by independent laboratories according to ISO 21702 (mod.) and ISO 22196 (mod.) against germs (bacteria, viruses).

Without Harmful Ingredients

In contrast to many other germ-reducing technologies, Lock 3 works without silver, nanoparticles or biocides, toxic or mutagenic ingredients. There is no odor development, aerosol formation, nor resistance; nor is



there any release of chemicals to the environment. The innovative coating may be used on all flexible packaging, for dry and liquid filling goods.

Special Temperature Conditions for Retort Applications

Sauerkraut, hash browns, dried fruit, and even wet food for dogs and cats are pasteurized or retorted for preservation. Depending on the process, the temperatures in the filling process may reach up to 135 °C. An antimicrobial coating with Lock 3 has not been possible under these demanding conditions until now.

Lock 3 Now Also at High Temperatures

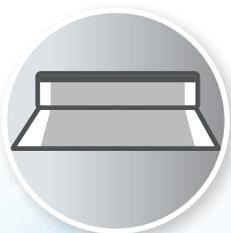
That is why Lock 3 has been further optimized for the antimicrobial surface coating of flexible packaging of sterilized products. Retort temperatures are no longer a problem for this surface coating. The antimicrobial mode of action retained. The modified version also comes without odor development, aerosol formation, resistance or release of chemicals into the environment.

Hygiene Plus for Packaging

The use of Lock 3 on flexible packaging surfaces of sterilized products is another important step towards reducing the germ load on pouches and films. As an addition to existing hygiene concepts, the antimicrobial Lock 3 coating provides an offers an additional plus in safety for retailers and consumers - now and in the future.



Packaging without antimicrobial lacquer (viruses, bacteria)



The lacquer is applied by conventional printing processes



Activation through reaction with visible light and oxygen



Packaging with antimicrobial lacquer. Germ reduction up to 99.99 %.

PRODUCTS

Special Solutions for Demanding Requirements



Sterilizable mono-material laminates: the latest packaging solution from Wipf.



Customized aluminum free coffee pouch with high oxygen and water vapor barrier.



Proud winners: Piero Rapagna (left) from Wipf and Sylvester Frick from Herbert Ospelt Anstalt.

New: Monomaterial For Retortable Applications

Until now, retortable mono-material laminates were not available in the market. However, after extensive development work, Wipf AG has found a working solution. An absolute highlight – and so far a pioneer in this demanding packaging sector. Currently, the range includes flat and stand-up pouches for retort applications.

Close cooperation with the customer is necessary to find the right mono-material solution for each retort application: self life, barrier and other properties need to be jointly defined and individually developed. Due to the narrow sealing window, high-performance solutions are required.

Successful packaging solutions are only possible through close cooperation with customers, manufacturers of sealing processes and machines. This results in products that are perfectly tailored to the respective requirements. Here, Wipf AG has many years of experience in processing high barrier films.

Sustainability even for the most demanding barrier packaging – innovations from Wipf make it possible.

Coffee? Sure. But Sustainably Packaged!

True coffee lovers live for their passion. Just like Patrik Hosennen. He offers his customers at the specialty roastery Hosennen only the very best coffees and only roasts them freshly to order every day. As a perfectionist he not only cares for the product, but also for sustainable packaging.

Wipf AG was entrusted with the task to develop a sustainable 1 kg coffee bag. With high oxygen and water vapor barrier, but without aluminum. The material of choice for the new product: a gusset bag out of a 2-ply laminate PETalox/PE with a degassing valve. This keeps the coffee protected and retains its aroma for a long time. The sustainable coffee bag also provides material savings, no aluminum foil and a reduced CO₂ footprint.

Another step on the way to perfect coffee enjoyment – just as Patrik Hosennen's wants it. But Wipf AG is already thinking ahead. For example coffee pouches made of mono-materials...

By the way: The coffees are not only available in the roastery, but also online at hosennen-kaffee.ch.

Double Success at The Swiss Packaging Award

The Wipf AG and Herbert Ospelt Anstalt won the Swiss Packaging Award 2021 in the „Sustainability“ category with their new 10 kg dog food pouch made of mono-material. It was also nominated and awarded in the special „Circular Economy“ category.

This year, the Swiss Packaging Institute honored outstanding achievements in the packaging industry. Our development project „From 4 make 1 = Good to Recycle“ scored points twice.

The idea behind it: for all packaging components only one material instead of many different ones. The result: a highly recyclable pouch made of high-performance mono-material OPP/PP. It is reel-fed and both the reclosure as well as the carrying handle are applied during the pouch forming process.

The three-year development period was worth it, because during this time it was possible to acquire the knowledge of further sustainable packaging solutions for a wide range of products and requirements.

RIGHT ON TREND

Packaging from Sustainable Mono-Material

The topic of sustainability is increasingly becoming the focus of interest: Consumers are paying more attention to environmentally friendly products and packaging and legal requirements are also becoming increasingly stringent. What is needed are sustainable materials that meet the highest standards. Like the new mono-materials from Wipf.

Mono-material – One Material, Many Possibilities

Packaging made of mono-material consists of several layers of only one base material. Easy to sort and recycle – in other words, sustainable all along the line. But they must also have all the properties of conventional packaging: Flexible, lightweight, easy to print on and easy for customers to process. With optimum protection against UV radiation, moisture and contamination from the outside. Robust enough for transportation and use. Wipf AG is facing this challenge. The result is a new type of mono-material packaging based on PP films that meets the high requirements with regard to the product, processing, everyday use and recycling.



Award from Interseroh

The new mono-material laminates were tested by the environmental service provider Interseroh. This company works with and for customers, among other things, to close recycling loops. Certificates from Interseroh are seals of quality for environmental and resource protection. Mono-materials and polyolefin laminates from Wipf received top scores and were awarded with the „Made for Recycling“ label.

New Spout Sealing Machine for Mono-Material Laminates

To ensure robust sealing of the new laminates, an alternative sealing process may need to be used. This is why Wipf AG invested in a new ultrasonic spout sealing machine. This extends the company's machine park by another highlight. Now spouts can be perfectly sealed onto mono-material laminates. An ideal extension to the company's capabilities to meet requirements from customers and new production processes.

A pouching line using the ultrasonic sealing process is already planned, in order to maintain the company's edge in the sealing of spouts on mono-materials. Sealing is particularly demanding on these materials in order to assure perfect seams and tightness of the pouches. A satisfactory result can only be achieved by extensive know-how.



Mono-material – Versatile

The new mono-material bags with spouts are suitable for a wide range of applications in the food and non-food sectors. The range extends from windshield cleaner and baby food to liquid soaps and refill pouches. All mono-material packaging have in common a good printability and processing quality. Also antimicrobial coating with Lock 3 or matte varnish are available options.



Know-How from the Professional

Experience is paramount when developing sophisticated solutions. With their extensive know-how on mono-material structures from OPP/PP and polyolefin applications PP/PE, Wipf AG has the optimal prerequisites for further development of mono-materials for retort applications. This opens up many exciting perspectives and forward-looking projects for sustainable packaging.



GreenLution – Recyclable Capsules For Circular Economy

One project that has already been successful is GreenLution, which was launched in 2020 in collaboration with Optima consumer GmbH and Säntis Packaging AG. Together they developed a recyclable capsule system for coffee and other products. The sustainable life cycle covers all areas from the production of the capsule filling, packaging and use of the capsule to material recycling. The filling and packaging of the recyclable capsule is

done with a minimum of resources, i.e. less space requirements and energy consumption, and improved material usage. The result: an increased efficiency of 98 % with a waste rate of less than 0,05 %. Always in the foreground: perfect product protection, which was ensured to 100 %.

Wipf contribution to this system is the sustainable laminate WICOGREENLINE, a mono-material with high oxygen and water vapor barrier, high aroma protection, printable in gravure, flexo and digital printing, aluminum-free, BPA/PVC/PVDS

free, good barrier against MOSH/MOA, excellent product protection and a perfect match to capsule and filling line. It is available as 2-ply or 3-ply laminates. Thanks to the barrier it allows a good shelf life and is also suitable for all common printing processes.



The possible applications of mono-material laminates is extensive and further projects are already in process. Sustainable packaging is in demand as never before. This is an ideal condition for many more innovative packaging solutions from Wipf.

Also for Compostable Laminates – WICOVALVE® Valves from Wipf.

Specially developed for the coffee industry, the compostable WICOVALVE® valves W606E and W616E – the perfect extension to the WICOVALVE® range.

YOUR ADVANTAGES:

- Industrially compostable according to the EN13432 standard, in combination with bio compostable laminates.
- Based on the widely used W606 and W616 coffee valves.
- Suitable for thermal sealing.
- Optimal aroma protection.
- Equal in functionality and quality to non-compostable valves. Ideal for environmentally conscious coffee roasters who want to offer their customers a completely compostable packaging with perfect aroma protection.

Application areas: Bean coffee, ground coffee, other products

Body material: Ecovio®

Opening pressure: 2.0 - 7.0 mbar



Protecting the Climate with Customers

Everybody is concerned about climate protection – and not just since today. Responsible use of energy and resources is therefore an obvious concern for Wipf AG. Not only within the company itself, but also beyond. For example, as a partner of the myclimate climate protection foundation.

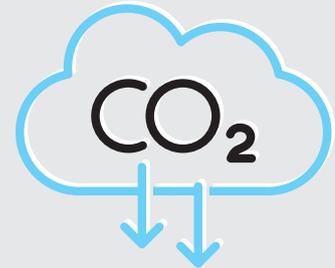
For holistic climate protection, offsetting CO₂ emissions plays an important role in addition to avoidance and reduction. Despite all efficiencies, the production of packaging still creates unavoidable CO₂ emissions. These may however be compensated for.

For this reason, Wipf AG signed an agreement with the myclimate climate protection foundation back in 2012. This allows our customers to offset the CO₂ emissions generated in the production of their packaging.

Any emissions that occur during the life cycle are calculated and can then be offset by supporting a specific climate project. These are projects which save greenhouse gas emissions and thus protect our climate. Every climate-neutral order receives the myclimate label with ID number to identify the packaging. Clearly recognizable and immediately

**myclimate**
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flexible packaging

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visible. Our customers decide for themselves which projects they would like to support for CO₂ offsetting. Your regular contact at Wipf will be pleased to inform you about available projects.

This is how sustainable commitment really pays off – for the benefit of all.

Interested? More information is available at www.myclimate.org

SUSTAINABILITY

is an essential part of our corporate philosophy – and drive for the development of innovative packaging solutions from Wipf.



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