



Koehler
PAPER

**“ARE THERE ANY
ALTERNATIVES
TO PLASTIC
PACKAGING?”**



NexxFlex®

Nexx Generation Paper Packaging

ANSWERING THE FUTURE

More and more consumers are looking for sustainable packaging. The innovative paper solutions from NexFlex® are **the** eco-friendly packaging alternative from Koehler Paper. 100% recyclable; 100% on trend. And extremely versatile to use.



Koehler Paper

Koehler Paper is a part of the Koehler Group, an independent family business in the 8th generation, with more than 2,500 employees globally. At four locations in Germany we produce more than 500,000 tonnes of specialty paper and board for the global market annually.

With a total investment of over 300 million euros, Koehler Paper has paved the way for a sustainable future. A completely new production line was built at our Kehl mill in Germany. This new paper and coating machine produces paper with special functions: NexFlex® flexible packaging paper.

NexFlex®

With the new NexFlex® product range, Koehler established a unique and fully recyclable generation of flexible packaging paper. Reliability, quality and the confidence customers have in the Black Forest-based family business are combined with the vision of an innovative global market leader.

Our range includes a wide spectrum of flexible packaging paper. These include standard coated and uncoated paper products used in composites for pouches, sachets and other applications. The strategic objective is the production of barrier paper that will replace plastic in packaging.

Our flexible packaging paper is suitable for a variety of end-use applications, which include different packaging for food and nonfood applications.

What they have in common is the renowned high Koehler quality. These include high strength properties and excellent dimensional stability as well as a natural white color without optical brighteners.

Our NexFlex® product lines:

KOEHLER
NexCoat®

KOEHLER
NexPure®

KOEHLER
NexPlus®



*“Making more plastic waste with every cereal bar?”
To be honest – I feel bad every time. And I know that
I’m not the only one. I’d be really happy if someone
would come up with eco-friendlier alternatives.”*



KOEHLER NexCoat®

One-side coated paper

Koehler NexCoat® are one-side coated papers that can be used for a wide range of different applications in the field of flexible packaging. Koehler deliberately offers these without any optical brightening agents, as the natural whiteness conserves resources and the environment. Koehler NexCoat® has excellent dimensional stability, a very smooth printing side and a rough reverse side. Koehler NexCoat® is suitable for direct food contact.

Koehler NexCoat® Smart

Koehler NexCoat® Smart is a premium paper that is smooth and coated on one side for a wide range of applications in the field of flexible packaging. These include, for example, pouches, bags, sachets for candy and much more.

One of its special properties is its natural whiteness, which is achieved without optical brightening agents. Koehler NexCoat® Smart is characterized by outstanding printing properties, an excellent coating holdout, good embossing properties and excellent dimensional stability.

At the same time, it offers excellent running characteristics on converting and packaging machines and is particularly suitable for roto-gravure and flexo printing.

Koehler NexCoat® Smart is also available as **Koehler NexCoat® Smart Arctic White**, with a fresh, intense whiteness.

Koehler NexCoat® Smart is produced in the grammages of 40 up to 90 gsm.



Koehler NexCoat® M

Koehler NexCoat® M is a base paper for metallization. The premium paper, which is smooth and coated on one side and treated on the reverse side offers a high level of smoothness and gloss. In addition to metallization, it is also excellently suited to lamination and printing and displays high bending and flex-crack resistance.

Koehler NexCoat® M is approved for direct food contact. It displays excellent printing properties, very good runability properties and outstanding coating holdout. This paper is particularly suitable for rotogravure and flexo printing.

Koehler NexCoat® M is produced in the grammage of 80 gsm.



Koehler NexCoat® Lid

Koehler NexCoat® Lid is a kraft paper coated on one side, specially developed for yogurt lids. Thanks to its sustainable whiteness and good level of gloss, as well as the excellent elongation properties makes the paper suitable for lidding conversion.

It displays excellent printing properties, very good coating holdout and outstanding running characteristics on converting and packaging machines. It is particularly suitable for roto-gravure and flexo printing.

Koehler NexCoat® Lid is produced in the grammage of 43 gsm.





Koehler NexCoat® Banderole

Koehler NexCoat® Banderole is a premium paper that is smooth and coated on one side. It is specifically designed for yogurt pot bandedoles. Due to its high level of stiffness, this paper gives yogurt pots the necessary stability so that less material is used.

Koehler NexCoat® Banderole is characterized by a natural whiteness and gloss and outstanding dimensional stability. Thanks to its outstanding ink and coating holdout and the excellent processing properties, it is particularly suitable for rotogravure and flexo printing.

Koehler NexCoat® Banderole is produced in the grammages of 90 and 95 gsm.

“The mountains of garbage are getting bigger and bigger, plastic waste is sent abroad or simply dumped into the oceans. It is high time to look for environmentally friendly alternatives – and we should even start with the smallest packaging.”





KOEHLER NexPure®

Uncoated paper

Koehler NexPure® are uncoated papers and the trend for many applications. Consumers want to see and feel sustainability in the packaging products are in. The natural look and feel of paper conveys at a glance that renewable raw materials have been used. With this machine glazed paper, Koehler introduces a new product line to the market: Koehler NexPure®. The paper is suitable for a wide range of applications where the best processing properties should be combined with a natural appearance.

Koehler NexPure® Smart

Koehler NexPure® Smart is an uncoated kraft paper, machine glazed on one side and with a rough reverse side. It is suitable for a wide range of applications. These include bread bags and wrappers for candy and chewing gum.

Thanks to its high strength properties and dimensional stability, Koehler NexPure® Smart is well suited for further processing.

This includes PE extrusion as well as lamination with aluminum foil and other substrates. Due to the use of certified raw materials for direct food contact, Koehler NexPure® Smart is particularly suitable for the use in the food industry.

Its high level of smoothness and high volume make it particularly suitable for rotogravure and flexo printing.

Koehler NexPure® Smart is produced in the grammages between 22 and 80 gsm.



Koehler NexPure® Tea

Koehler NexPure® Tea is a machine glazed kraft paper. It is specifically designed for use as packaging for tea bags.

It is the perfect paper for this application thanks to its properties: in addition to its excellent crimping properties, Koehler NexPure® Tea is also suitable for use with cold seal adhesive and is characterized by high volume and stiffness.

Koehler NexPure® Tea is made exclusively from virgin fiber, making the paper suitable for direct food contact.

Due to its high level of smoothness and high volume, it is particularly suitable for rotogravure and flexo printing.

Koehler NexPure® Tea is produced in the grammages of 62 and 70 gsm.



“Environmental awareness is growing and people are thinking more and more about sustainability. But plastic packaging is still ever present in grocery stores. How are we supposed to buy sustainably when there are no alternatives to all that plastic packaging?”





KOEHLER
NexPlus®

Sustainable barrier paper

Koehler NexPlus® is the next generation of paper for flexible packaging and offers a sustainable alternative for the packaging industry. With their functional surfaces, Koehler NexPlus® paper offers product protection and can be recycled in the existing paper recycling process. The barriers can have varies from aroma to water vapor and underline the Koehler vision to bring better and more sustainable packaging solutions for all industries to market.

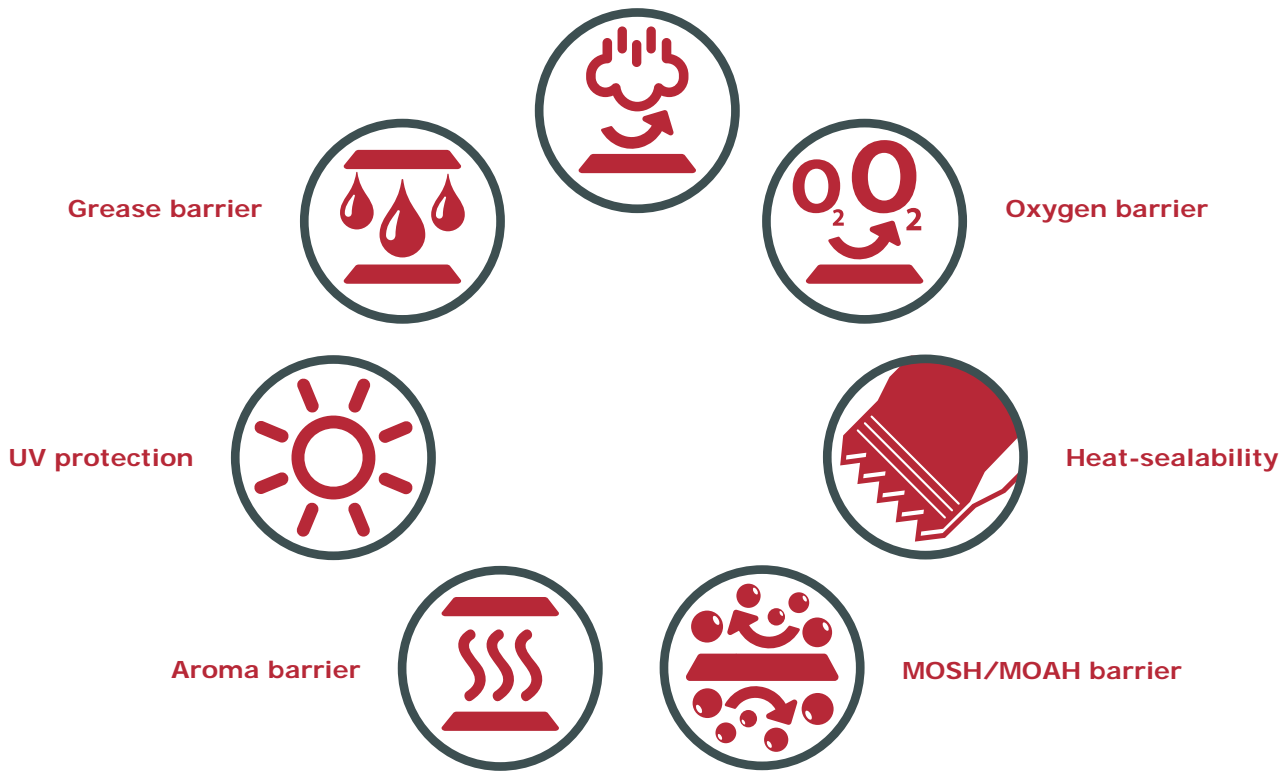


Koehler NexPlus®

Koehler NexPlus® is a range of barrier papers with versatile features. When these are combined with each paper's specific properties, the result is a powerful portfolio. These paper offer everything you expect from flexible packaging: they not only protect the packaged goods and the environment and improves your brand image, but also offer superb processing characteristics.

The paper runs excellently on conventional packaging machines and functions throughout the entire converting process, while maintaining high strength properties.

Water vapor barrier



Koehler NexPlus® Seal Pure

Koehler NexPlus® Seal Pure is a heat-sealable paper made of virgin fiber pulp. Koehler NexPlus® Seal Pure is used as secondary packaging and primary packaging where no additional barriers are required.

Thanks to its excellent strength properties, this newly developed base paper is perfectly suited to further processing on all standard packaging machines. Koehler NexPlus® Seal Pure impresses with its optimum running characteristics. Since it is made from 100% certified virgin fiber, it is suitable for direct food contact.

Thanks to the outstanding printing ink and coating holdout, Koehler NexPlus® Seal Pure is particularly suitable for rotogravure and flexo printing.

Koehler NexPlus® Seal Pure is produced in the grammages of 40, 45, 60 and 80 gsm.



Koehler NexPlus® Seal Pure flexible packaging paper has been certified by the environmental services provider Interseroh and awarded the "Made for Recycling" seal.

Koehler NexPlus® Seal Coat

Koehler NexPlus® Seal Coat is a heat-sealable paper for flexible packaging made from virgin fiber pulp. It is suitable for particularly outstanding printing results in rotogravure printing. Koehler NexPlus® Seal Coat is used as primary and secondary packaging.

Thanks to its excellent strength properties, this newly developed base paper is perfectly suited to further processing on all standard packaging machines. Koehler NexPlus® Seal Coat impresses with its optimum running characteristics as well as paint properties. Since it is made from 100% certified virgin fiber, it is suitable for direct food contact.

Thanks to the outstanding printing ink and coating holdout, Koehler NexPlus® Seal Coat is particularly suitable for rotogravure, flexo and digital printing.

Koehler NexPlus® Seal Coat is produced in the grammages of 55 and 75 gsm.





Koehler NexPlus® Seal MOB

Koehler NexPlus® Seal MOB is a heat-sealable paper with a mineral oil barrier for flexible packaging. It is suitable for packaging of dry and non-greasy food. Koehler NexPlus® Seal MOB is used as primary and secondary packaging.

Thanks to its excellent strength properties, this newly developed base paper is perfectly suited to further processing on all standard packaging machines. Koehler NexPlus® Seal MOB impresses with its optimum running characteristics as well as top heat sealing performance. Since it is made

from 100% certified virgin fiber, it is suitable for direct food contact.

Thanks to the outstanding printing ink and coating holdout, Koehler NexPlus® Seal MOB is particularly suitable for rotogravure, flexo and digital printing.

Koehler NexPlus® Seal MOB is produced in the grammages of 49, 69 and 84 gsm.



Koehler NexPlus® Seal MOB flexible packaging paper has been certified by the environmental services provider Interseroh and awarded the "Made for Recycling" seal.

Koehler NexPlus® Advanced

Koehler NexPlus® Advanced is a newly developed barrier paper made from virgin fiber. Its functional layer provides a barrier to oxygen and mineral oil and it is resistant to grease. Koehler NexPlus® Advanced is heat-sealable and has been prepared for the application of cold seal adhesive. It is therefore ideally suited as primary and secondary packaging for temperature-sensitive products. These include chocolate bars and other candy and nonfood products.

Thanks to its excellent strength properties, Koehler NexPlus® Advanced paper is perfectly suited to further processing on all standard packaging machines, boasting optimal running properties. As Koehler NexPlus® Advanced is made from 100% certified virgin fiber, it is suitable for direct food contact.

Koehler NexPlus® Advanced is produced in 75 gsm.



interseroh

Koehler NexPlus® Advanced flexible packaging paper has been certified by the environmental services provider Interseroh and awarded the "Made for Recycling" seal.

Koehler NexPlus® Performance

Koehler NexPlus® Performance is a heat-sealable barrier paper whose functional layer provides a barrier to water vapor and mineral oil and is also resistant to grease. Koehler NexPlus® Performance is therefore especially suitable for dry or powdered products with a minor grease content, like cocoa powder, powdered dessert, confectionary, snacks, and many more.

In addition to food packaging, Koehler NexPlus® Performance paper is also useful for a wide range of dry nonfood products – wherever a barrier to water vapor is required, such as in the case of dishwasher tabs and detergent powder.

Koehler NexPlus® Performance is produced in 80 gsm.

Due to its excellent strength properties, good sealability and optimum running characteristics, it is perfectly suited to further processing on all standard packaging machines.

As Koehler NexPlus® Performance is made from 100% certified virgin fiber, it is suitable for direct food contact. It is particularly suitable for roto-gravure and flexo printing.

NexPlus® Performance is in development phase and will be available from 2023 on!



NexFlex® – Product Family

Product	Properties	Processing
Koehler NexCoat® Smart	One-side coated paper	Rotogravure and flexo printing, metallization, lamination, extrusion
Koehler NexCoat® Smart Arctic White	One-side coated premium paper with a strong whiteness	Rotogravure and flexo printing, metallization, lamination, extrusion
Koehler NexCoat® M	One-side coated paper	Rotogravure and flexo printing, metallization
Koehler NexCoat® Lid	One-side coated paper	Rotogravure and flexo printing, lamination
Koehler NexCoat® Banderole	One-side coated paper	Rotogravure and flexo printing, lamination, coating, extrusion
Koehler NexPure® Smart	Uncoated, machine glazed paper	Rotogravure and flexo printing, lamination with aluminum foil, PE extrusion
Koehler NexPure® Tea	Uncoated, machine glazed paper	Rotogravure and flexo printing, crimping, cold seal adhesive applications
Koehler NexPlus® Seal Pure	Heat-sealable paper	Rotogravure, flexo and digital printing, horizontal and vertical form-fill-seal packaging systems
Koehler NexPlus® Seal Coat	One-side coated heat-sealable paper	Particularly outstanding printing results in rotogravure printing
Koehler NexPlus® Seal MOB	Heat-sealable paper with a mineral oil barrier	Flexo, rotogravure and digital printing, horizontal and vertical form-fill-seal packaging systems
Koehler NexPlus® Advanced	Heat-sealable paper with barriers for oxygen, grease and mineral oil; prepared for the application of cold seal adhesive	Rotogravure and flexo printing, commercially available packaging machines with cold-sealing
Koehler NexPlus® Performance	Heat-sealable barrier paper with barriers for water vapor, grease and mineral oil	Rotogravure, flexo and digital printing, horizontal and vertical form-fill-seal packaging systems

Grammages (further grammages upon request)	Applications	Pouches	Carrier and shopping bags	Lids for yogurt containers	Sleeves for yogurt containers	Soup pouch	Flour packets	Outer packaging for tea	Coffee wrapper	Pet food pouches	Metallized labels	Gift wrap	Flow wrap packaging
40, 45, 50, 60, 70, 80, 90	Candy wrappers, candy and food sachets and pouches, coffee wrappers, shopping and carrier bags	X	X			X	X		X	X		X	
50, 60	Candy and food sachets and pouches, coffee wrappers, shopping and carrier bags	X	X			X	X		X	X		X	
80	Metallized labels, gift wrap										X		
43	Lids for yogurt pots			X									
90, 95	Banderoles for yogurt pots				X								
22, 25, 30, 35, 40, 50, 60, 70, 80	Candy and food sachets and pouches, coffee wrappers, shopping and carrier bags	X	X			X	X		X	X		X	
62, 70	Packaging for tea bags							X					
40, 45, 65, 80	Stand-up pouches, pouches, flow wrap, secondary packaging	X				X				X			X
55,75	Various applications as secondary and primary packaging	X				X				X			X
49, 69, 84	Dry and non-greasy food, e. g. packaging for noodles	X				X				X			X
75	Primary and secondary packaging for food and nonfood applications	X											X
80	Dry and powdery products in the food/nonfood segments	X				X			X	X			X



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