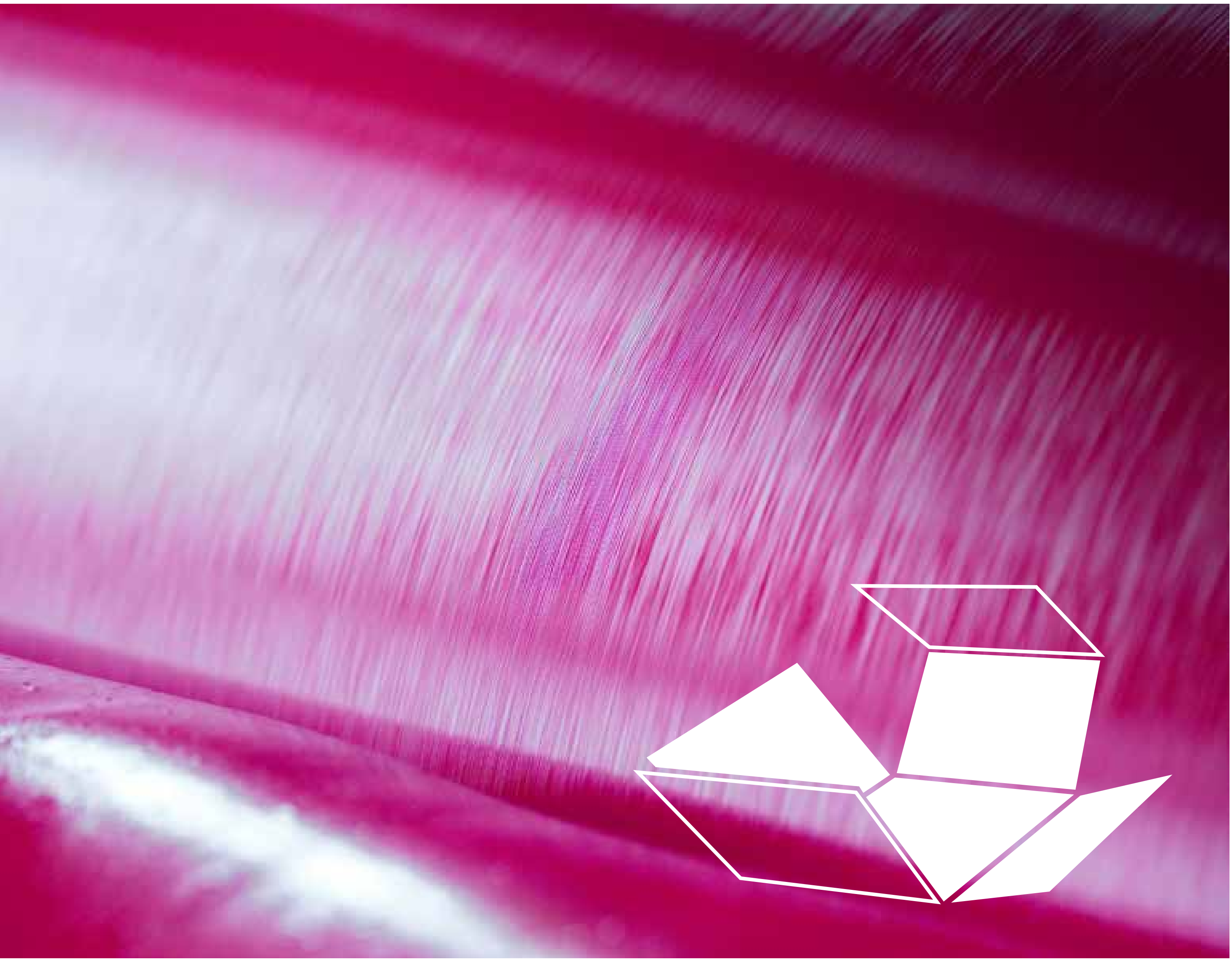
ZELLER+GMELIN

Packaging

[eng]

High Quality Inks for Packaging Applications



Zeller+Gmelin
The brand with the noticeable plus

Zeller+Gmelin is a medium-sized, international manufacturer of lubricants, printing inks and chemicals. Founded in 1866 and headquartered in Eislingen/Fils (Germany), the company is still family-owned.

With 19 subsidiaries we are well networked world-wide and supply our high-quality products to more than 80 countries.

We have been Provider + Solver for more than 150 years and will remain so in the future. This is how we create a noticeable plus for our customers. We understand our customers and develop solu-tions – reliable, flexible and tailor-made.

Radiation-curing printing ink systems have been a special field of our research and development since 1970. Our printing inks and coatings for Narrow Web, Packaging, Commercials, and Metal Decoration applications convince with reliable premium quality. Today, we are one of the world's leading suppliers of radiation-curing printing inks and coatings that masterfully highlight brands and packaging.

In order to live up to this claim at all times, we rely on practical and personal advice, and on the know-how, passion, and experience of our employees. In this way we want to be the compe-tent and creative partner who also makes your brand more visible and stronger.

Packaging

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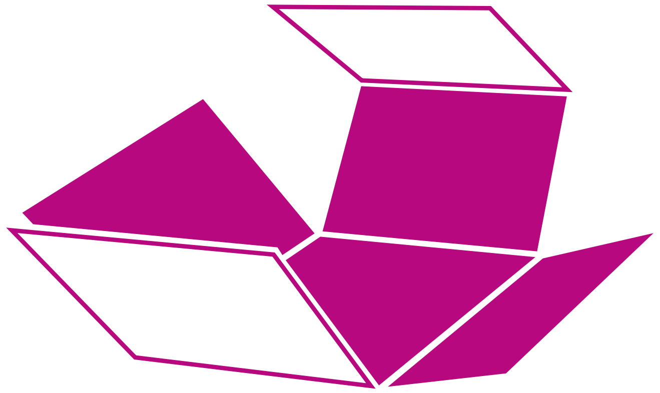


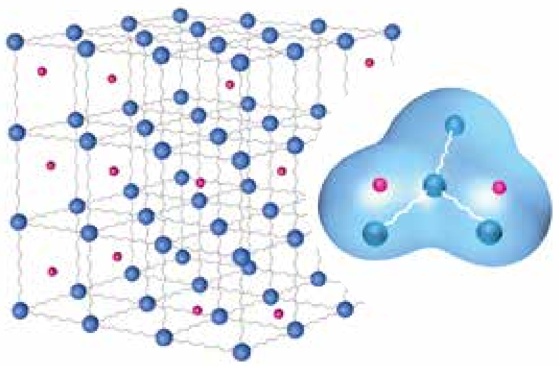
Modern FCM technology

Printing of food packaging in accordance with stricter legal requirements

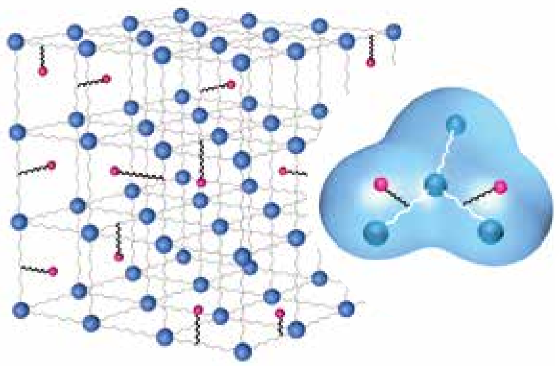
Increasingly stringent legal requirements raise the demands on the production of legally compliant food packaging. Therefore, the correct choice of printing ink and varnishing systems is all the more important.
Based on current developments and the latest raw materials, Zeller+Gmelin present the appropriate solution with the new generation of low migration FCM UV- printing inks for printing on food packaging and labels.
The new ink systems contain significantly less substances which are critical to migration. Together with the use of special cross-linked initiators, Zeller+Gmelin have minimized the risk of migration.
The molecular weight of the cross-linked photoinitiators (approx. 1000 Dalton) exceeds that of conventional photoinitiators (< 400 Dalton) by quite some way. In addition, they contain polymerizable groups which participate in the curing and are thus firmly incorporated in the chemical structure of the printing ink film. These features make the new FCM-system by Zeller+Gmelin tremendously secure!

Our FCM technology is more than just „low migration". It is characterized by a high-quality composition, paired with the highest requirements and the lowest migration behaviour, as well as excellent printing properties.

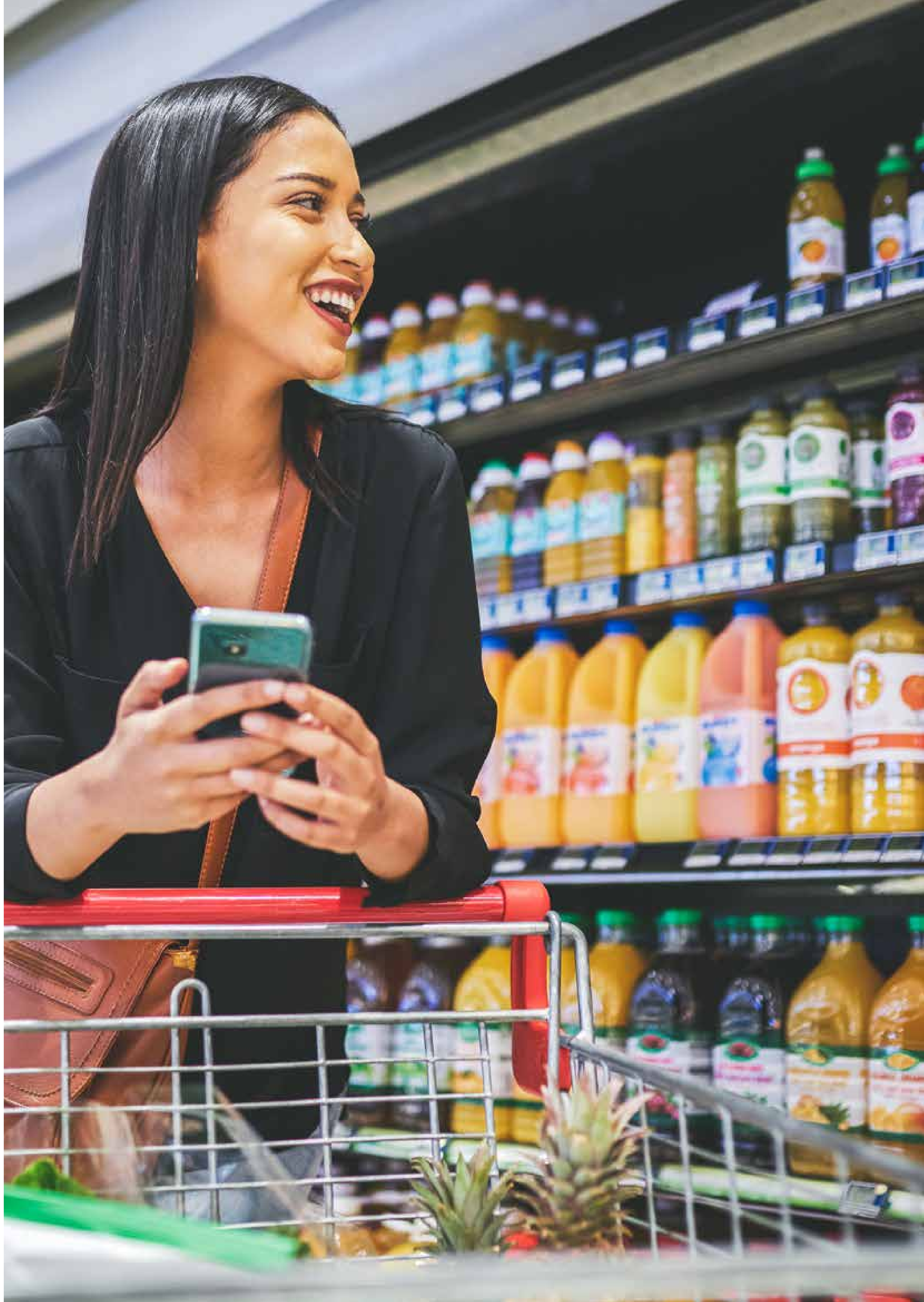
The advantage of conformity
+ Nestlé Standard St-80.001 (Printing Inks for Food Packaging)
+ Without bisphenol A and raw materials based on bisphenol A
+ Swiss Consumer Goods Ordinance 817.023.21
+ GMP Regulation (EU) 2023/2006
+ EU Regulation 10/2011 in its most recent version



UV Standard



Zeller+Gmelin FCM inks



Analytics center

Zeller+Gmelin has an in-house analytics center that was set up specifically for the development of low-migration inks, for raw material controls, and for the internal verification of test samples.

Recently, we also have the capability of liquid chromatography with high resolution quadrupole time-of-flight mass spectrometer, for even more accurate and sensitive analysis.

In addition, we always have our low-migration ink series tested and evaluated by independent analysis institutes. This double testing enables us to offer printers, packaging buyers and consumers the greatest possible product safety.

Numerous analyses prove that, when used properly, our low-migration ink series not only safely comply with the legal limit of 10 ppb in migration tests with 95 % ethanol, but also fall well below it.

+ liquid chromatography with high-resolution quadrupole time-of-flight mass spectrometer (LC-QToF-MS)
+ gas chromatography with mass spectrogram (GC-MS)
+ liquid chromatography with mass spectrogram (LC-MS)
+ quality control of our raw materials used
+ internal evaluation of test patterns

UV LED Technology

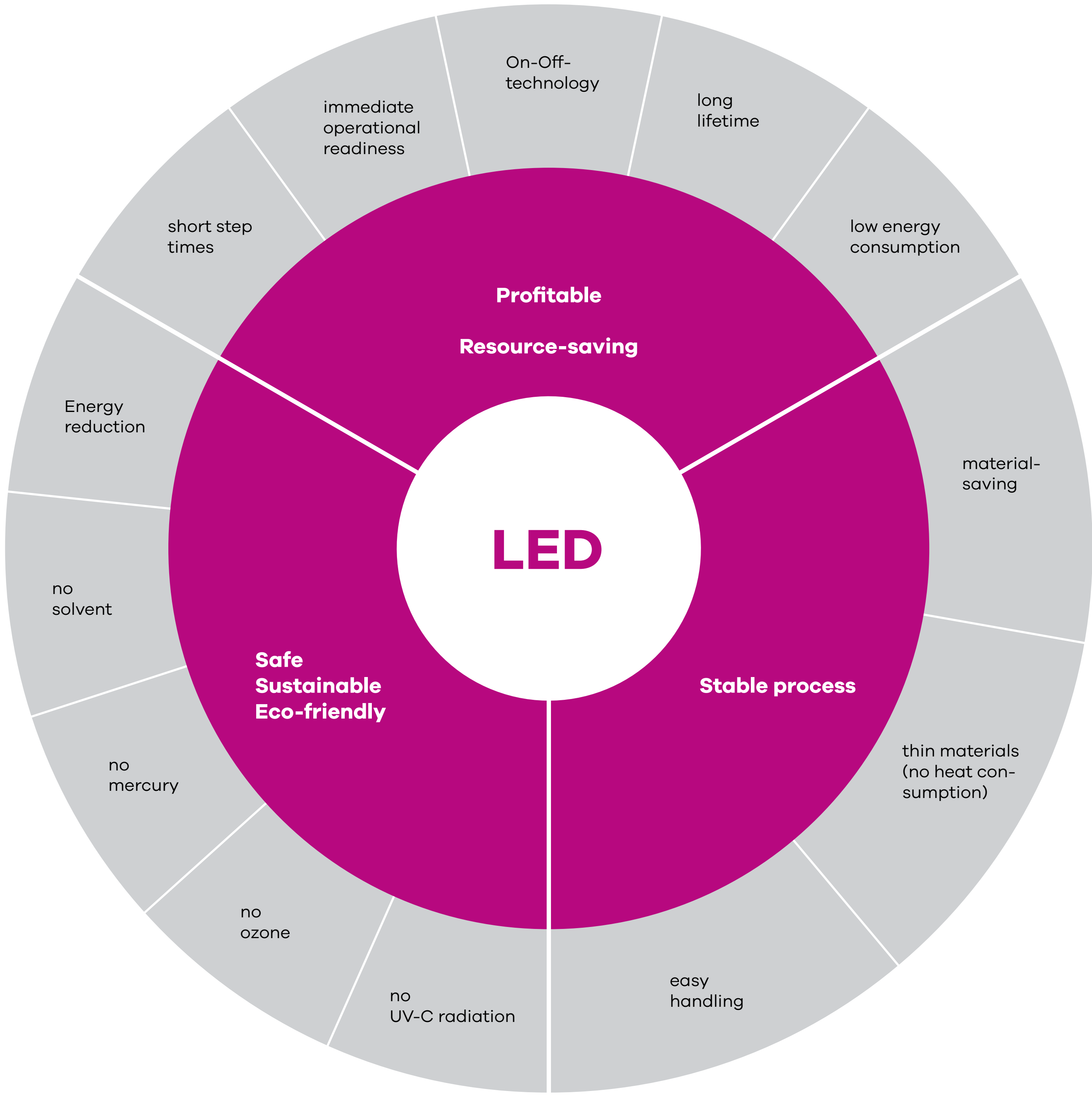
The LED technology has become a true alternative solution in the field of radiation curing! UV and UV LED inks are dried in exactly the same way. It is irrelevant whether standard mercury lamps or LED lamps are used.
The ink or the photoinitiators start chemical cross-linking of the ink film when exposed to UV light. The difference is that an LED system cures with a specific wavelength. The crosslinking reaction is thus triggered by excitation in a very narrow wavelength range. Industrial LED systems can operate in a wavelength range from 365 nm to 405 nm. The most common systems are those that emit at 385 nm or 395 nm.

Environmentally friendly + sustainable
Our printing inks are highly reactive systems that, thanks to their formulation, do not contain any kind of volatile raw materials. This makes our printing inks solvent- and emission-free! UV LED technology also completely eliminates the use of mercury vapour lamps.
Therefore, you no longer have mercury in your production process and thus protect the environment. By using a specific wavelength when using UV LED emitters, no ozone is created on the machine, heat input is reduced to a minimum and no critical UV-C radiation is emitted. This makes our UV LED ink solutions a user and environmentally friendly system!

+ no ozone formation
+ mercury-free technology
+ no critical UV-C radiation
+ minimum heat input
+ low energy demand

Profitable + powerful
LED lamps are ready for immediate use, eliminating stand-by or heat-up times. You can operate the lamps in "switch on-switch off" mode and thus clock your processes. In addition, LED units can be partially switched due to their design. This enables the switching off of unneeded LEDs outside the print area. LED lamps also have a much longer service life with no power loss. This extends maintenance cycles many times over.

+ high efficiency
+ long service life
+ no power loss
+ zone switching
+ it can be clocked
+ no warm up time
+ no standby time




OFFSET

UVALUX and UVALUX LED

The modern UV and UV-LED offset ink series for packaging

Ever shorter delivery times require increased production efficiency. The rapid start-up and curing properties of the UVALUX ink series for food (FCM) and non-food applications enable lively and detailed print results with breathtaking brilliance thanks to their high colour strength and surface gloss even at higher production speeds.

No limits
UVALUX and UVALUX LED offset printing inks are designed for the highest machine speeds and are characterized by excellent offset stability. It doesn't matter whether in sheetfed or web offset. – No limits!

Versatile
There is no limit to the variety of substrates with the UVALUX and UVALUX LED products. The right product from Zeller+Gmelin is available for almost every application.

Brilliant + strong
A high colour intensity paired with a high surface gloss leads to detailed, lively results when using UVALUX and UVALUX LED products. The great brilliance completes the print result.

Top performance
UVALUX and UVALUX LED are at home on your printing machine. The Ink series are characterized by their homogeneous machine behaviour. They are excellent printable with a stable viscosity and very good flow properties.
A stable colour-water behavior, even at extremely high or low Colour management and high yield through optimized pigmentation offer further advantages during printing.

Full programme
As in all Zeller+Gmelin colour systems, there are no limits to the product portfolio of UVALUX and UVALUX LED. In addition to the PSO scale, our high-intensity Z-Base colours are available for colour mixing in all colour series.

U581

UVALUX FCM LED U581

Low-migration LED offset printing for food packaging

+ Excellent adhesion
+ Highly reactive, low odour

		UVALUX FCM LED U581
Applications	Food packaging	++
	In-Mould-Labels	++
	Flexible Packaging	++
	Wrap Around	++
	Shrink Sleeves	+
	Folded Boxes	++
	Labels	++
Substrate	Film	++
	Cardboard	++
	Paper Coated	++
	Paper Uncoated	++
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++
	Shrinking	+

++ suitable + partly suitable – unsuitable

Applications
+ self-adhesive labels
+ shrink sleeve labels
+ in-mould labels
+ wrap-around labels
+ flexible packaging
+ folding cartons

Properties
+ minimised migration
+ extreme low odour
+ 100 % BPA-free
+ high ink density and strength
+ compliance with all relevant and current legal requirements
+ developed on the basis of the latest raw materials
+ excellent printing performance, homogeneous machine behaviour
+ low and stable viscosity
+ excellent ink-water stability
+ excellent curing properties
+ overprintable
+ hot and cold foil embossing possible
+ Thermal transfer printing
+ universally applicable on paper and film
+ Z-Base colour mixing system

The use of LED technology also results in the following aspects:
+ no ozone formation, so that extraction is no longer necessary
+ no mercury
+ no UV-C radiation

Food law regulations
The ink series was formulated according to the latest regulations and industrial standards!
+ Nestlé Standard St-80.001 (Printing Inks for Food Packaging)
+ current Swiss consumer goods ordinance 817.023.21 (Dec. 2019)
+ current EuPIA Guideline (April 2020)

U540

UVALUX FCM LED U540

The modern LED offset ink series for commercials and packaging

+ Outstanding printing performance
+ Highest print speed

		UVALUX FCM LED U540
Applications	Labels	++
	Packaging	+
	Commercials	++
	Mailings	++
Substrate	Paper Uncoated	++
	Paper Coated	++
	Cardboard	++
	Film	+
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++

++ suitable   + partly suitable   – unsuitable

Applications
+ Non-food-packaging
+ Non-food-labels

Properties
+ high colour intensity
+ high scratch and abrasion resistance
+ excellent adhesion
+ 100% BPA-free
+ compliance with all relevant and current legal requirements
+ developed on the basis of the latest raw materials
+ excellent printing performance, homogeneous machine behaviour
+ low misting effect
+ excellent ink-water stability
+ overprintable
+ hot and cold foil embossing possible
+ Thermal transfer printing
+ universally applicable on paper and cardboard boxes
+ Z-Base colour mixing system

The use of LED technology also results in the following aspects:
+ no ozone formation, so that extraction is no longer necessary
+ no mercury
+ no UV-C radiation

U81

UVALUX FCM U81

Low-migration UV offset printing for foil materials

+ Excellent adhesion
+ High colour brilliance

		UVALUX FCM U81
Applications	Food packaging	++
	In-Mould-Labels	++
	Flexible Packaging	++
	Wrap Around	++
	Shrink Sleeves	+
	Folded Boxes	++
	Labels	++
Substrate	Film	++
	Cardboard	++
	Paper Coated	++
	Paper Uncoated	++
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++
	Shrinking	+

++ suitable + partly suitable – unsuitable

Applications
+ self-adhesive labels
+ shrink sleeve labels
+ in-mould labels
+ wrap-around labels
+ flexible packaging
+ folding cartons

Properties
+ minimised migration
+ extreme low odour
+ high ink density and strength
+ compliance with all relevant and current legal requirements
+ developed on the basis of the latest raw materials
+ excellent printing performance, homogeneous machine behaviour
+ low and stable viscosity
+ excellent ink-water stability
+ excellent curing properties
+ overprintable
+ hot and cold foil embossing possible
+ Thermal transfer printing
+ universally applicable on paper and film
+ Z-Base colour mixing system

Food law regulations

The ink series was formulated according to the latest regulations and industrial standards!
+ Nestlé Standard St-80.001 (Printing Inks for Food Packaging)
+ current Swiss consumer goods ordinance 817.023.21 (Dec. 2019)
+ current EuPIA Guideline (April 2020)

UVALUX FCM U41

Universal low-migration UV offset/letterpress
for paper and foil materials

+ Flexible colour film
+ Outstanding printing performance

		UVALUX FCM U41
Applications	Food packaging	++
	In-Mould-Labels	+
	Flexible Packaging	++
	Wrap Around	++
	Shrink Sleeves	+
	Folded Boxes	++
	Labels	++
Substrate	Film	++
	Cardboard	++
	Paper Coated	++
	Paper Uncoated	++
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++
	Shrinking	+

++ suitable + partly suitable – unsuitable

U41

Applications
+ self-adhesive labels
+ shrink sleeve labels
+ in-mould labels
+ wrap-around labels
+ flexible packaging
+ folding cartons

Properties
+ minimised migration
+ extreme low odour
+ 100 % BPA-free
+ high ink density and strength
+ compliance with all relevant and current legal requirements
+ developed on the basis of the latest raw materials
+ excellent printing performance, homogeneous machine behaviour
+ excellent ink-water stability
+ excellent curing properties
+ overprintable
+ hot and cold foil embossing possible
+ Thermal transfer printing
+ universally applicable on paper and film
+ Z-Base colour mixing system

Food law regulations
The ink series was formulated according to the latest regulations and industrial standards!
+ Nestlé Standard St-80.001 (Printing Inks for Food Packaging)
+ current Swiss consumer goods ordinance 817.023.21 (Dec. 2019)
+ current EuPIA Guideline (April 2020)

U70

UVALUX U70

UV offset printing for film materials

+ High colour brilliance
+ Excellent adhesion

		UVALUX U70
Applications	Labels	++
	Packaging	++
Substrate	Paper Uncoated	++
	Paper Coated	++
	Cardboard	++
	Film	++
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++

++ suitable + partly suitable – unsuitable

Applications
+ Non-food-packaging
+ Non-food-labels

Properties
+ excellent printing performance, homogeneous machine behavior
+ excellent ink-water stability
+ excellent curing properties
+ overprintable
+ excellent adhesion on demanding substrates
+ universally applicable on on paper and film
+ Hot and cold foil embossing possible
+ Z-Base colour mixing system

U40

UVALUX U40

Universal low-migration UV offset/letterpress
for paper and foil materials

+ High machine speeds
+ High colour brilliance

		UVALUX U40
Applications	Labels	++
	Commercials	++
	Mailings	++
	Packaging	++
Substrate	Paper Uncoated	++
	Paper Coated	++
	Cardboard	++
	Film	+
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++

++ suitable + partly suitable – unsuitable

Applications
+ Non-food-packaging
+ Non-food-labels
+ Mailings
+ Printed forms/commercials

Properties
+ high colour strength
+ very good scratch- and rub resistance
+ excellent adhesion
+ very good ink-transfer
+ high brillance
+ ready for overvarnishing and hot stamping
+ suitable for thermal transfer printing
+ low odour
+ low ink-misting
+ optimised ink-water-balance
+ suitable for laser printing
+ VOC-free

Toracur LED W580

The stable UV LED ink series for waterless offset printing

Waterless offset printing is often used for the production of labels and packaging used on different substrates. Here, special priting plates are used, which differ significantly from the water-based offset printing. Waterless offset printing plates have an ink-repellent silicone layer on the surface, which has a low surface tensio. The underlying layer is ink-receptive and thus a printing component. This will keep down the dot gain extremely low and there are no fluctuations throughout the whole printing process. These properties are strengthened by Toracur W580 and lead to a high-quality print result. Toracur W580 can be easily cured with all types of UV, no matter if LED-UV, UV-Hg or H-UV.

The special formulation also leads to fabulous results on critical substrates print results with low dot gain, high brilliance and an impressive point sharpness. The simple processing leads to even less waste and faster set-up times.

Stability
The waterless offset printing is characterized by its extreme stability in the production run. The Toracur LED W580 supports this behaviour due to the stable viscosity during production.

Environmentally friendly
Due to the special formulation of the Toracur LED W580, quick set-up times and low start-up waste are guaranteed. The good and fast colour transfer supports the already existing positive properties in waterless offset printing even further.

Brilliant + strong
A high colour strength paired with a high surface gloss lead to detailed, vivid results when using Toracur LED products. The great brilliance completes the print result.

Versatile
DualCure with UV-LED as well as UV-Hg are available when using Toracur LEDs of course. In addition to the versatility in the choice of drying there are almost no restrictions when it comes to the choice of substrates. Toracur LED has been designed to be used on a versatile variety of substrates developed like highly absorbent paper, plastic-coated paper or PE substrates.

W580

Toracur LED W580

The stable UV LED ink series for waterless offset printing

+ DualCure: Universal drying with UV-Hg and UV-LED
+ Outstanding printing performance

		Toracur LED W580
Applications	Labels	++
	Commercials	++
	Mailings	++
	Packaging	++
Substrate	Paper Uncoated	++
	Paper Coated	++
	Cardboard	++
	Film	++
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	++
	Ink Jet	+
	Laminating	++

++ suitable + partly suitable – unsuitable

Applications
+ Non-food-packaging
+ Non-food-labels
+ Mailings
+ Printed forms/commercials

Properties
+ high colour strength
+ very good scratch- and rub resistance
+ excellent adhesion
+ very good ink-transfer
+ high brillance
+ ready for overvarnishing and hot stamping
+ suitable for thermal transfer printing
+ low start-up waste

ESALUX E4

New generation of electron beam curing (ESH) Offset printing inks for label and packaging printing.

With the ESALUX E4 colour series, a new generation of electron beam curing (ESH) Offset printing inks specially designed for the manufacture of created packaging materials.

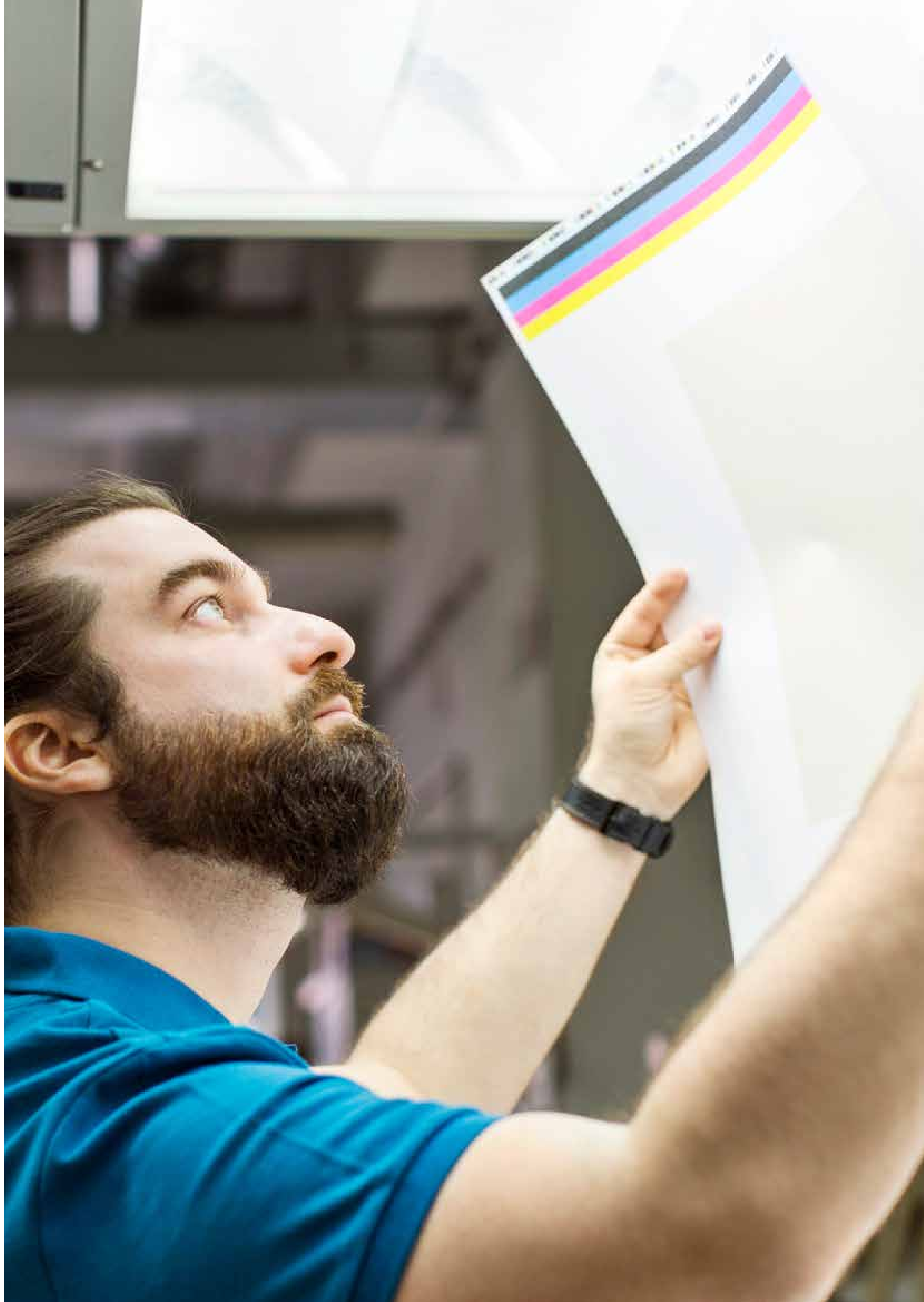
ESALUX E4 colours are very universal on a variety of paper and foil materials. The main advantages of ESH technology are one consistent dryer performance, regardless of colour, layer thickness or the substrate used, a very low heating of the carrier materials and low energy consumption.

Inks from the ESALUX E4 series do not contain any photoinitiators, have excellent odour and migration properties and were up for the application Food packaging and odour „sensitive" formulated products.

Versatile
There are no limits to the variety of substrates with ESALUX products.
The right product from Zeller+Gmelin is available for almost every application.

Top performance
ESALUX products are at home on your printing machine. The ink series is characterized by its homogeneous machine behaviour. She is outstanding printable with a stable viscosity and very good flow properties.
A stable colour-water behaviour, even at extremely high or low colour management and high yield through optimized pigmentation offer further advantages during printing.

Modern + Safe
By dispensing with photoinitiators, ESALUX is the choice for printing complex food packaging. But that's not all, because during the formulation, other critical raw materials for migration were also observed in order to further minimize the risk for the end application – expertly done!



E4

ESALUX E4

New generation of electron beam curing (ESH) Offset printing inks for label and packaging printing.

+ Versatile substrate selection
+ Initiator-free

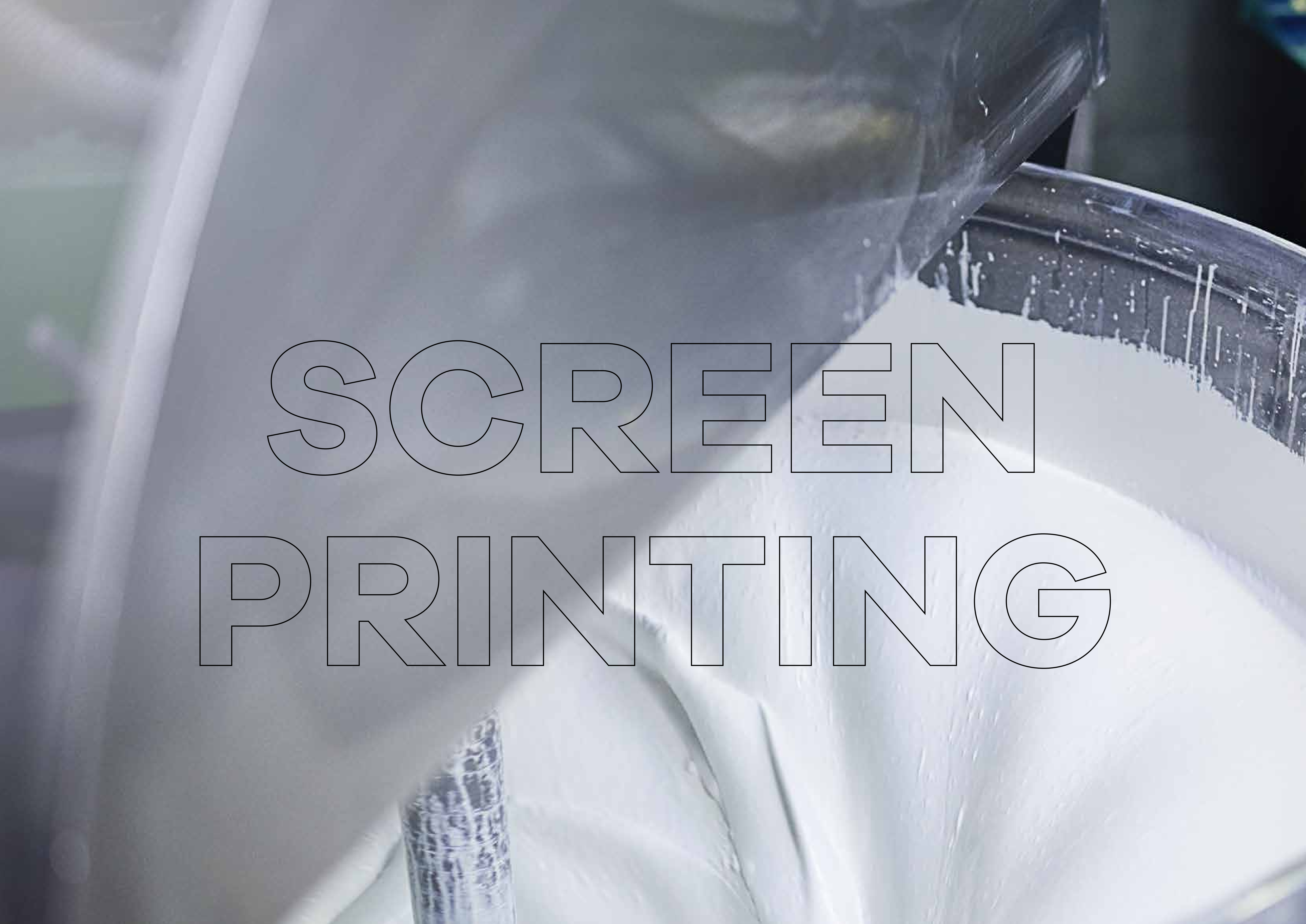
		ESALUX E4
Applications	Food packaging	++
	In-Mould-Labels	++
	Flexible Packaging	++
	Wrap Around	++
	Shrink Sleeves	+
	Folded Boxes	++
	Labels	++
Substrate	Film	++
	Cardboard	++
	Paper Coated	++
	Paper Uncoated	++
Finishing and further Processing	Hotfoiling	++
	Coldfoiling	++
	Thermal Transfer	++
	Thermal Direct	–
	Ink Jet	+
	Laminating	++
	Shrinking	++

++ suitable + partly suitable – unsuitable

Applications
+ food packaging
+ labels
+ flexible packaging
+ folding cartons

Properties
+ **initiator-free**
+ very good scratch- and rub resistance
+ excellent adhesion
+ low odour
+ highly reactive binding agent system
+ very good printability
+ suitable for overvarnishing and hot stamping
+ no post-curing
+ VOC-free

SCREEN PRINTING



OPTISCREEN SR

Opaque white for all combinations

We have developed different opaque white qualities for rotary screen printing especially for your label printing requirements in combination with other colours and printing processes.

These are silicone-free and are therefore suitable not only as standalone inks, but also for pre-printing and overprinting with inks from most printing processes as well as for finishing such as hot foil stamping and thermal transfer printing.

All opaque white qualities can be used universally with Gallus, Stork and Kocher+Beck Screens.

They have a high opacity and whiteness and deliver optimum results even with low ink laydown.

Our screen printing opaque white lies evenly and smoothly on the substrate with simultaneous screen sharpness. The accurate printing of fine fonts is no problem even at high press speeds. Fast, complete drying guarantees good adhesion to a large number of substrates with high wipe and scratch resistance.
With the Braille screen printing varnishes can be used to create Braille or decorative finishes (relief) with excellent dot definition. Several silicone-free and overprintable opaque white variants with a high degree of whiteness and opacity are available for the combination printing of non-label look labels.

LACQUER AND ADHESIVE SYSTEMS

Lacquer and adhesive systems

The solution for packaging finishing

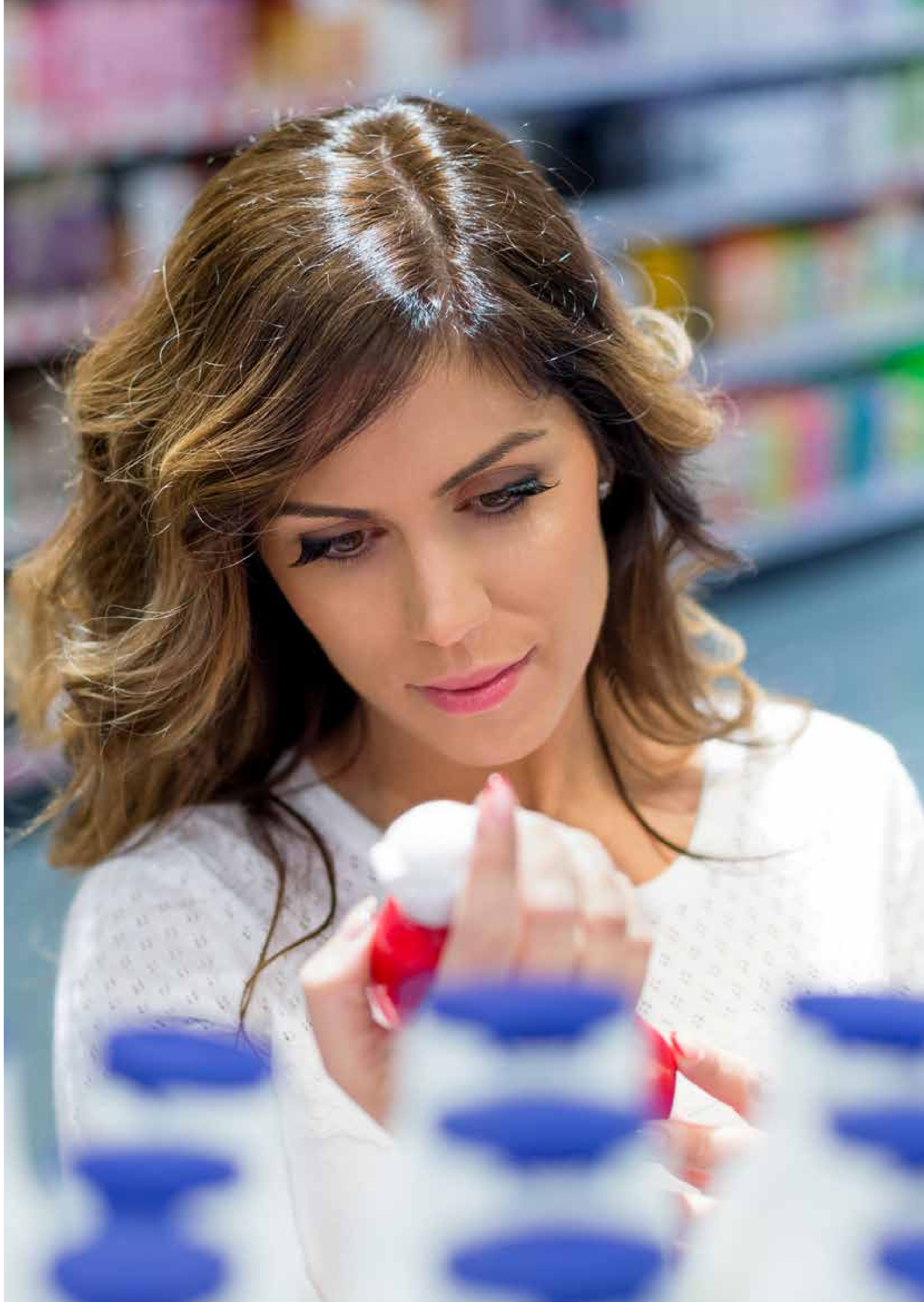
Lacquers and adhesives – Finishing with lacquers not only gives the printed labels a tactile or visual finish, but also protects them for use in challenging applications, both in FCM (Food Contact Material) labels for the pharmaceutical industry, as protection against mechanical influences or acidic and alkaline product packaging and industrial NON-FCM applications such as automotive and aerospace.

Completely
For all areas of application in which Zeller+Gmelin offers printing inks, you will also find varnishes, adhesives and printing aids that are perfectly tailored to the specialized applications.

Versatile
Glossy varnish, matt varnish, protective varnish or special varnish. Coatings have to meet many requirements, no matter how special they may be. Thanks to our versatile application portfolio, we can cover almost every special application with both printing ink and coating.

Top performance
The properties of paints could not be more different. Their viscosity, reactivity and much more depends heavily on the application. Overprint varnishes from Zeller+Gmlein are always perfectly developed and coordinated for the correct application.

Modern + Safe
As required by the EU Chemicals Regulation REACH, chemicals are constantly being re-evaluated. This also applies to raw materials for our paints and adhesive systems. They are up to date in this regard and fulfills all requirements of the EuPIA Exclusion Policy. The particularly progressive Raw material selection and formulation ensure a high level of safety in the production of food packaging.



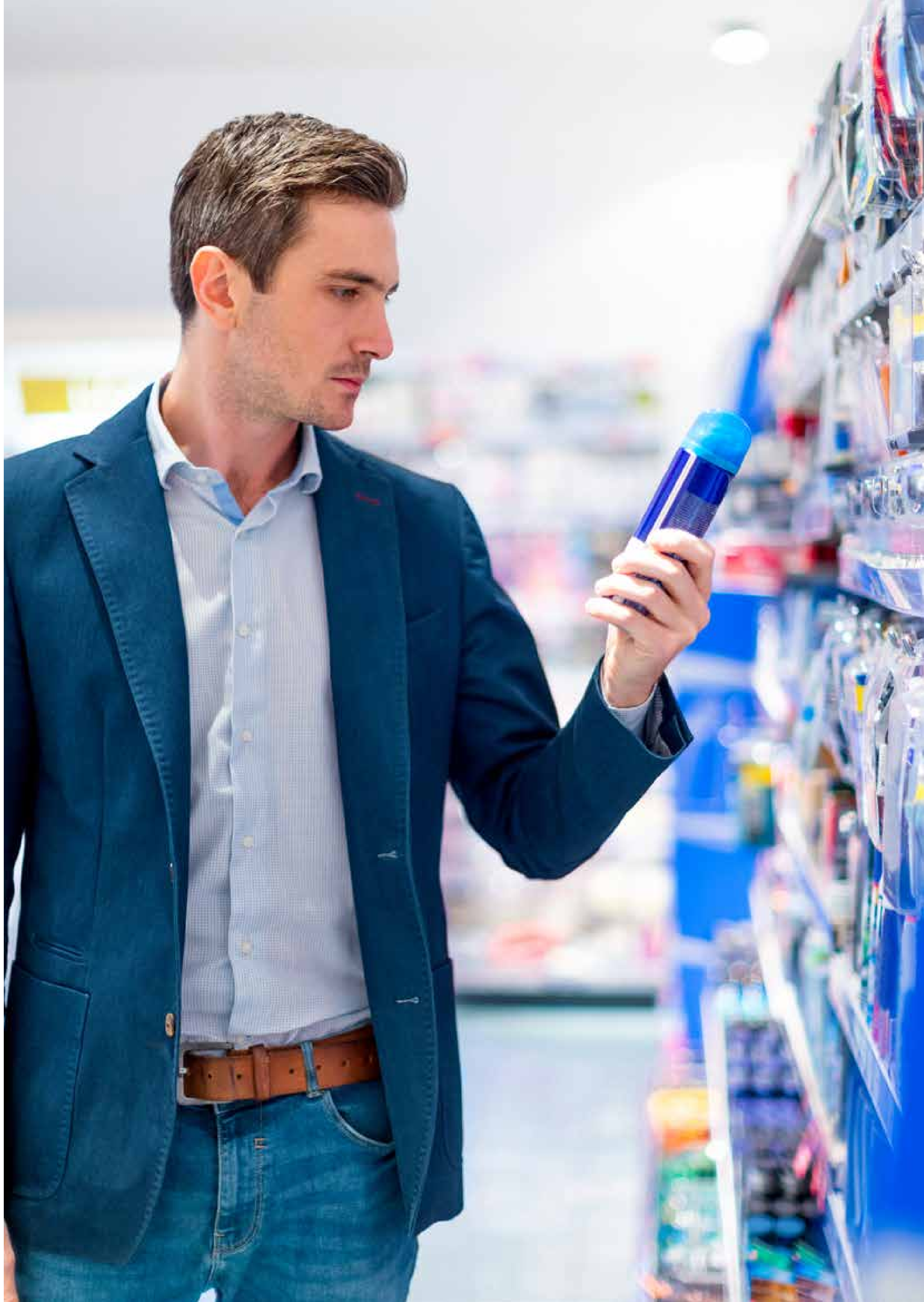
Cold Foil Adhesive Systems

You can achieve high-quality metallic effects in packaging with the help of the EURALUX and UVALUX cold foil adhesive systems!

The use of inline finishing with the help of cold transfer technology is an excellent tool, especially in packaging, to convince your customers with metallic effects. EURALUX and UVALUX cold foil adhesives support the stable process thanks to their simple processing, excellent machine performance and clean removal behaviour of the cold foil.

Our cold foil adhesives can be used in a variety of ways and give you a free choice of substrate or foil.

UVALUX and EURALUX adhesives are characterized by:
+ high printing speeds
+ easier and clean release behavior
+ low misting
+ optimized sensors
+ FCM qualities available

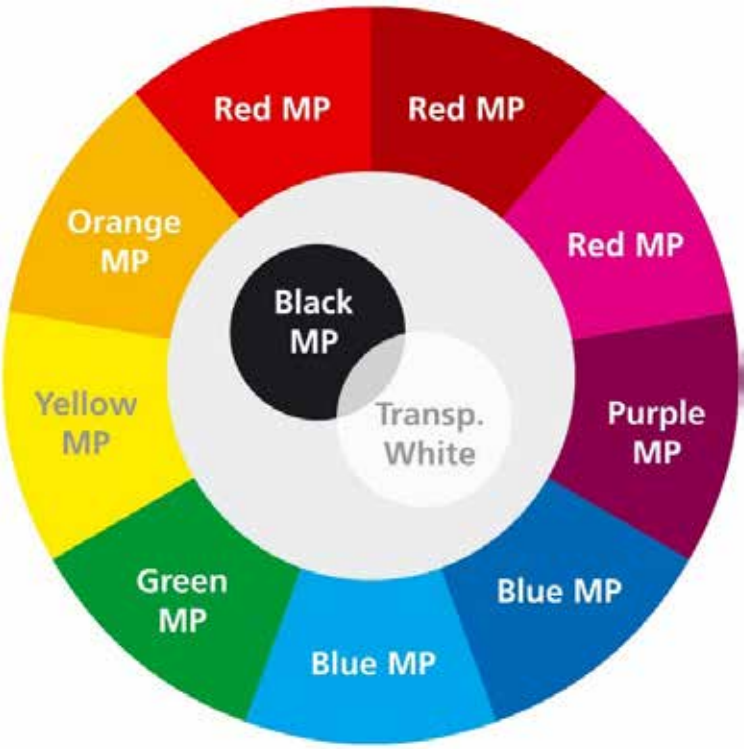


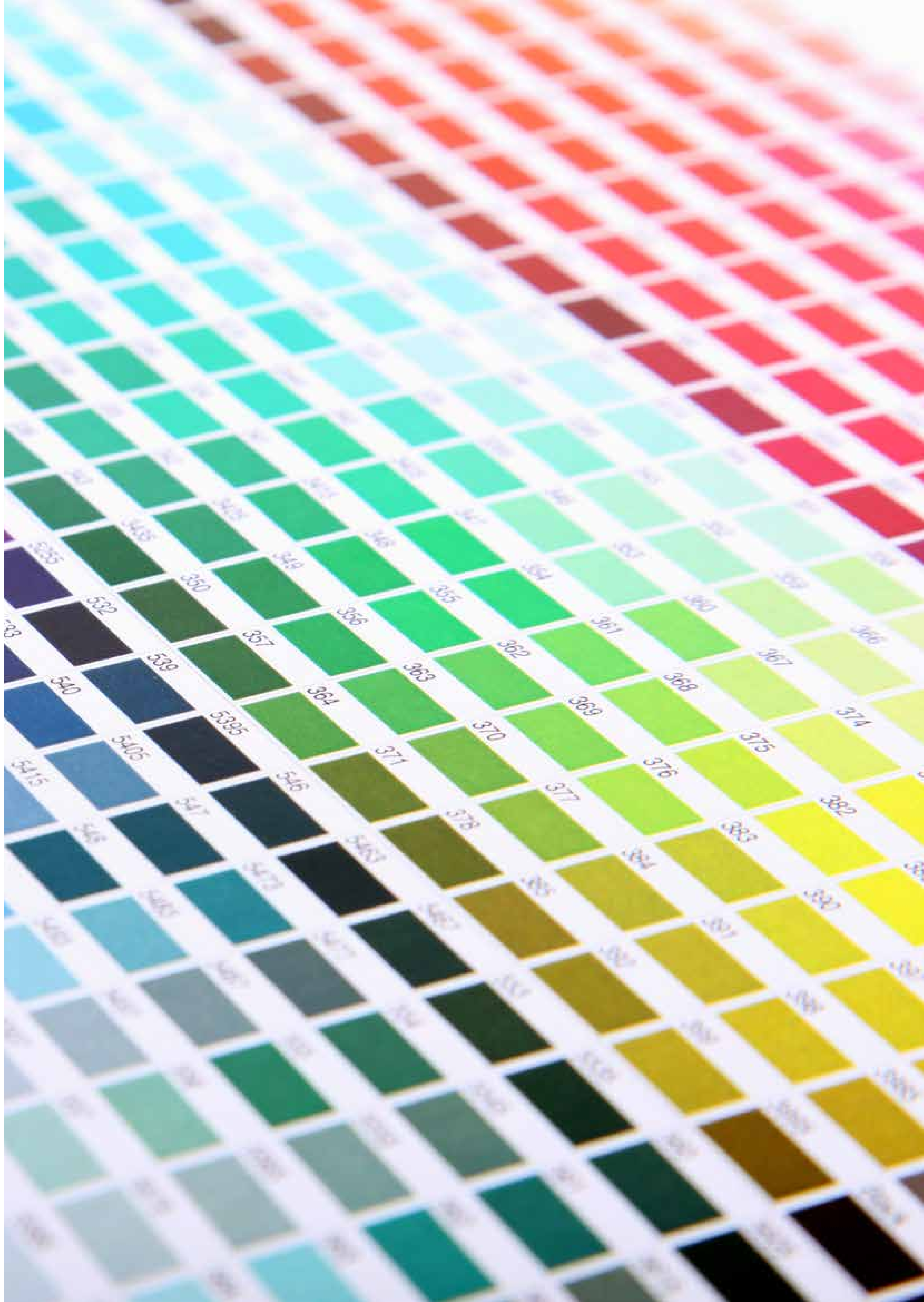
Mixing with Z-Base-Colours

Based on years of positive experience with monopigmented ink mixing systems, we also offer a monopigmented ink mixing system for our new LED offset series.

Advantages:
+ PANTONE® shades can be blended better
+ colour mixtures are more colourful and purer, since only pigments that are actually necessary for a colour mixture are used
+ the higher colour intensity enables printing at low layer thicknesses
+ reduced dot gain in halftone printing
+ greater flexibility when setting the colour intensity of spot colours
+ less hue shifting when viewing the printed products under different light sources (metamerism)
+ the colour communication between the colour manufacturer and the customer is easier and therefore faster due to the use of monopigmented mixing systems
+ mixing recommendations are available for all PANTONE® shades
+ colour formulation, mixing and metering systems are available in various configuration levels
+ reduction of storage costs
+ lower disposal costs for residual inks

We use the same Z-Base colour mixing systems in our production facilities. This ensures fast and effective colour communication between the manufacturer and the print shop.
Whether PANTONE® spot colours or other common mixing colour systems need to be mixed, our highly pigmented colour mixing systems always produce the best possible results.
Even colour fan-independent shades can be optimally adjusted.





Our way to Net-Zero

Zeller+Gmelin stands for healthy and sustainable growth. This means acting in a socially and ecologically responsible manner. The conscientious use of resources and responsibility towards future generations are central components of the company philosophy.
For years, we have been working successfully to reduce our ecological footprint and are continuously improving our CO_2 balance. Now we are taking the next step: Through process optimisation, we aim to further reduce our energy consumption and achieve Net-Zero emissions – not through offsetting, but directly by adapting our processes.

In a comprehensive project, Zeller+Gmelin and its subsidiaries Südöl and Fluidmanagement determined the CO_2 balance at their Eislingen site.
The three-pronged approach of the Kyoto Protocol, which entered into force in 2005, was applied.
The Kyoto Protocol was superseded by the Paris Agreement in 2015.

Strategic triangle approach to resource conservation

In the long term, we also aim to sell CO_2-reduced products to our customers. The research and development departments are continuously working on innovative solutions that reduce the burden on the environment and improve customers' processes.

Our development focus is on environmental friendly printing ink developments:
+ Deinking systems
+ LED color technology
+ Compostability
+ CO_2 reduced products etc.

You can find more detailed information in our sustainability brochure "Focus printing inks".

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1P345955–0823