

## Press Release



### UV ink series with excellent deinking properties

Zeller+Gmelin is expanding its range of deinkable offset inks that further improve the recyclability of UV-coated printed paper and board products.

Today, packaging should be designed to be as resource-friendly as possible and avoid waste as much as possible. This also includes the recycling of packaging. To obtain a raw material that is as pure and clean as possible, the printing ink must be removed during the recycling process.

The chemical-mechanical removal of printing inks from the substrate is known as "deinking". To assess suitability for this process, the international association of deinkers INGEDE has defined a standardized test procedure.



The sustainability of printed products has long been a focus of Zeller+Gmelin's research and development department. With the UV offset ink series for commercial and packaging printing, Zeller+Gmelin is expanding its range of deinkable solutions that further improve the recyclability of UV-coated printed paper and board products. The UV offset ink series achieved excellent results in deinking tests and thus received deinking certificates.

UV inks offer enormous advantages in the printing process due to their fast drying. However, UV inks adhere strongly to the paper fiber and are thus difficult to remove when the paper is recycled. To ensure that the corresponding printed products can be safely fed

into the recycling process, Zeller+Gmelin has now revised the UV offset ink series UVALUX U40 for commercial printing and UVALUX FCM U41 for printing food packaging. In addition, the new UVALUX LED U540 Commercial, an LED UV ink series for LED sheetfed and web offset printing, can also be deinked.

Test samples on coated and uncoated paper were produced and submitted to INGEDE. There, the test samples were treated according to INGEDE test method 11 and evaluated according to a standardized evaluation procedure, the "Assessment of Printed Product Recyclability - Deinkability Score" (EPRC 2018). The ink series received very high scores in the evaluation process. UVALUX U40 and UVALUX® U41 were certified by INGEDE as having excellent deinkability on both coated and uncoated paper. The LED offset series UVALUX LED U540 Commercial also showed good deinkability on coated papers.

These ink series are therefore very well suited for the production of sustainable and resource-saving packaging.



# ZELLER+GMELIN



With its deinkable solutions, Zeller+Gmelin particularly improves the recycling of UV-cured commercial and packaging prints and thus supports the recycling target for paper and board packaging defined by the EU to increase the recycling rate from 60% to 85% by 2030.

As one of the leading suppliers of label and packaging inks, Zeller+Gmelin is constantly driving forward the development of environmentally friendly printing inks.

Improving the environmental footprint of ink systems without sacrificing performance is a key research and development effort for the company.

Improved deinkability is a lever for the full recyclability of UV-cured prints, reinforcing the environmental benefits of the general UV printing process.

**Your contact person:**

Andreas Rascher  
Marketing  
Schlossstraße 20  
73054 Eisingen/Fils  
Phone: 07161 / 802 - 352  
E-Mail: [a.rascher@zeller-gmelin.de](mailto:a.rascher@zeller-gmelin.de)

**EXPERTLY DONE.**

Zeller+Gmelin GmbH & Co. KG · Schlossstraße 20 · 73054 Eisingen/Fils · Germany · Postfach 13 65 · 73054 Eisingen/Fils  
Phone: +49 7161 802-0 · Fax: +49 7161 802-290 · [info@zeller-gmelin.de](mailto:info@zeller-gmelin.de) · Geschäftsführer: Dipl.-Ing. (FH) Siegfried Müller  
Dipl.-Kfm. Walter Jerusalem · Dipl.-Ing. (FH) Thomas Alpers · Kommanditgesellschaft Sitz Eisingen · Amtsgericht Ulm HRA 530107  
Persönlich haftende Gesellschafterin Zeller+Gmelin Verwaltungs GmbH · Sitz Eisingen · Amtsgericht Ulm HRB 530641