

# NUVAFLEX® 30 Series

## Low Migration UV Printing for Food Packaging

The production of truly safe food packaging requires the right choice of printing ink and coating systems. Based on our latest developments, Zeller+Gmelin presents a new generation of low migration UV flexographic printing inks for food packaging and labels in the global printing market. These products distinguish themselves not only in terms of their ability to resist migration into food & drugs but also because of their excellent printability and cured physical properties (scuff resistance, adhesion etc.).

**NUVAFLEX® 30 Series** can help meet many industry packaging regulations, however, many of those commonly referenced regulations are updated on a frequent basis. We recommend that you contact our regulatory department for details regarding specific regulations.

This is our second generation of low migration UV flexo inks for printing on paper and synthetic substrates for labels, sleeves, unsupported films, folding cartons and flexible packaging. The series is characterized by its very low odor and improved wet-rub resistance on synthetic substrates.

**NUVAFLEX® 30 Series** is also qualified for producing flexible packaging and self-adhesive labels & in-mold labels, which are often used in the range of food packaging.

Printing tests and analytical results show that when these inks are correctly printed and cured, migration levels under 10 ppb are achievable, assuming Good Manufacturing Practices are observed.

**NUVAFLEX® 30 Series** has excellent physical properties of adhesion and product resistance when printed on many types of paper and plastic materials. **30 Series** allows for a singular UV ink system to be used in food packaging applications.

### Features

- + Low Extractables and Migration
- + Excellent strength level
- + Non silicone and wax free (except shrink whites)
- + Hot Stamping & Thermal Imprinting (except shrink whites)
- + Lowest odor available
- + High/Mid speeds
- + Free flow rheology
- + Free radical chemistry
- + High transparency and gloss
- + VOC free

### Applications

- + Flexible Packaging
- + In-mold Labels
- + Beverage Labels
- + Pharmaceutical
- + Folding Cartons
- + Foils

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### Color Availability

**NUVAFLEX® 30 Series** base inks are monochromatic pigmented for ease of use along with high level of continued product consistency. Also to note, chosen pigmentation has resulted in removal of some of the Pantone standard colorants to meet food packaging compliance standards. For Pantone matching please consult 30 Series custom color matching guidebook.

Description	Product Code	Blue Wool Fade	Anilox (bcm)
<b>PROCESS INKS</b>			
<b>Yellow</b>	3001	4	1.6
<b>Magenta</b>	3002	4	1.6
<b>Cyan</b>	3003	8	1.6
<b>Black</b>	3004	8	1.6
<b>Dense Black</b>	3006	8	2.2

Description	Prod. Code	Blue Wool Fade	Description	Prod. Code	Blue Wool Fade
<b>BASE INKS</b>					
<b>Yellow</b>	3010	4	<b>Blue</b>	3070	8
<b>Warm Red</b>	3020	4	<b>Green</b>	3080	8
<b>Rubine</b>	3030	4	<b>Black</b>	3090	8
<b>Rhodamine</b>	3041	7	<b>Extender</b>	3095	N/A
<b>Rhodamine</b>	RH3061814	4	<b>Orange</b>	30021	4
<b>Purple</b>	3051	7	<b>Orange</b>	30022	7
<b>Violet</b>	RH3061791	4	<b>FR Warm Red</b>	3021	7
<b>Violet</b>	3056	7	<b>FR Rubine</b>	3031	7
<b>Reflex Blue</b>	3060	7			

Description	Product Code	Notes
<b>HIGH OPACITY</b>		
<b>LM Opaque White DPS (silicone-free)</b>	3005	Superior opacity, anti-pinholing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to prime label and packaging stocks.
<b>LM Shrink Sealant White SV1 (contains silicone)</b>	3081	Superior opacity, anti-pinholing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to most common shrink sleeve substrates. Highest COF.
<b>LM Shrink Sealant White SV2 (contains silicone)</b>	3082	Superior opacity, anti-pinholing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to most common shrink sleeve substrates. Medium COF.
<b>LM Shrink Sealant White SV3 (contains silicone)</b>	3083	Superior opacity, anti-pinholing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to most common shrink sleeve substrates. Lowest COF.

**EXPERTLY DONE.**