

Colour system consisting of 3 series for optimum colour fidelity and colour identity

Base colour ink series for sheetfed offset

Product features

- The HKS® colour system consists of the 3 spot colour ink series: Novavit® HKS® K BIO, Novavit® HKS® N BIO INTENSIVE and Novaform® HKS® E BIO. The series are ideally matched to the different types of substrate and therefore offer optimum colour fidelity, colour identity and maximum flexibility in regard of the substrate choice.
- All 3 series are based on renewable raw-materials and comprise 88 inks, including 9 base colours as well as 79
 additional colour shades. The product properties and fields of application of the individual series are described in
 more detail on the following pages and the respective base colour inks are clarified.
- All HKS® inks can be obtained ready-to-print. With the exception of the base colours as well as Gold (HKS® 98) and Silver (HKS® 99) all other inks can also be mixed.
- As well as optimum colour fidelity and colour identity, excellent colour intensity, high brilliance and very good
 printability are additional strengths of the HKS® colour system.

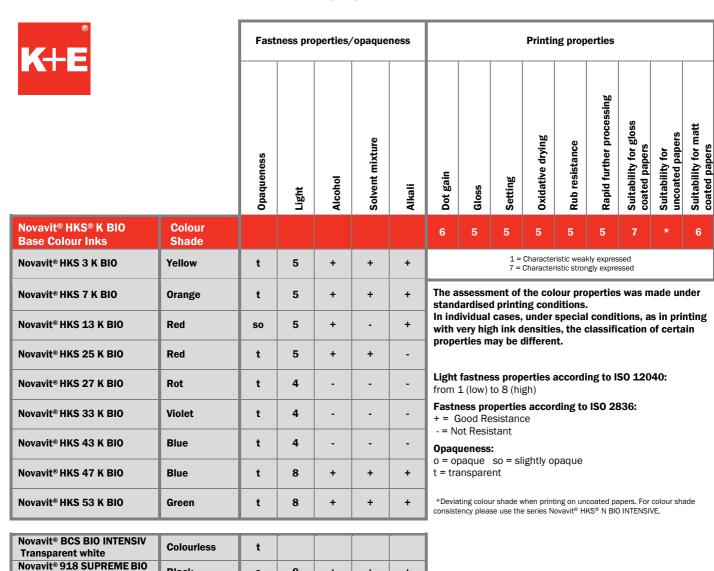
Advantages of the HKS® colour system

- 3 diverse series that are matched to different types of substrate.
- Optimum colour fidelity and colour identity.
- · Maximum flexibility with regard to the substrate choice.
- Based on BIO binders.
- Duct-fresh.
- Excellent colour intensity and high brilliance.
- Very good printability.
- Additional colour shades in the HKS® 3000+ colour book.





Novavit® HKS® K BIO – for coated papers



Drying properties Substrates

(correspond to HKS 88 K)

Drying by oxidation and setting, duct-fresh.

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Ideally suited for gloss coated papers.

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The HKS® K colour book was matched on art paper Praxiprint 115 g/m².

The ink film thickness: approx. 1.5 g/m².

When printing on matt coated papers, under specific circumstances, a colour shade adaption may

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be necessary.

Black

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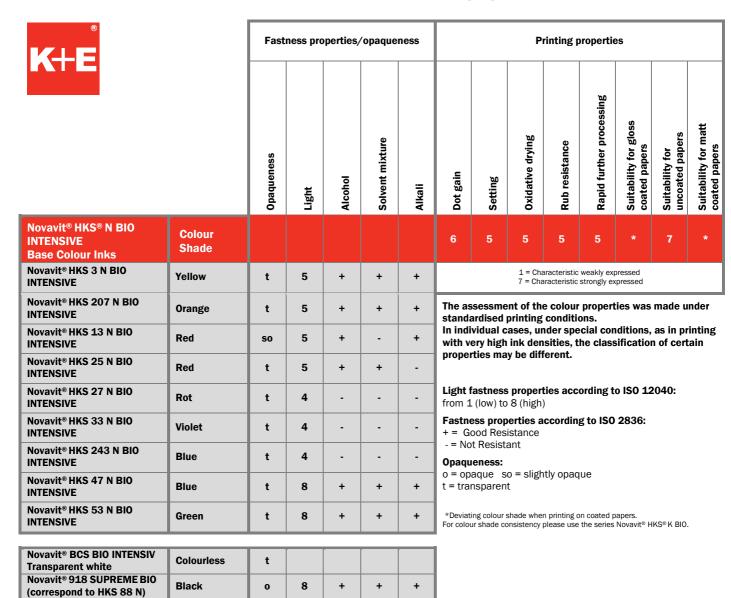
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Novavit® HKS® N BIO INTENSIVE - for uncoated papers



Drying properties Drying by oxidation and setting, duct-fresh.

Substrates Ideally suited for uncoated papers.

The HKS® N colour book was matched on uncoated paper 100 g/m².

The ink film thickness: approx. 2.0 g/m².

Further information: Novavit® HKS® N BIO INTENSIVE is highly pigmented.

For single printing two additional base colour inks are available:

Novavit® HKS® 7 N BIO INTENSIVE – Orange Novavit® HKS® 43 N BIO INTENSIVE – Blue

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Novaform® HKS® E BIO – for continuous forms

K+E		Fast	Fastness properties/opaqueness					Printing properties							
		Opaqueness	Light	Alcohol	Solvent mixture/Nitro	Alkali	Dot gain	Setting	Oxidative drying	Rub resistance	Rapid further processing	Suitability for gloss coated papers	Suitability for uncoated papers	Suitability for matt coated papers	
Novaform® HKS® E BIO Base Colour Inks	Colour Shade						6	5	3	5	3		7		
Novaform® HKS 3 E BIO	Yellow	t	5	+	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed								
Novaform® HKS 207 E BIO	Orange	t	5	+	+	+	The assessment of the colour properties was made under standardised printing conditions.								
Novaform® HKS 13 E BIO	Red	so	2-3	+	+/-	-	In indi with v	In individual cases, under special conditions, as in printing with very high ink densities, the classification of certain							
Novaform® HKS 25 E BIO	Red	t	5	+	+	-	prope	properties may be different.							
Novaform® HKS 27 E BIO	Rot	t	5	-	-	-	Light fastness properties according to ISO 12040: from 1 (low) to 8 (high)								
Novaform® HKS 33 E BIO	Violet	t	4	-	-	-	+ = G	Fastness properties according to ISO 2836: + = Good Resistance - = Not Resistant Opaqueness: o = opaque so = slightly opaque t = transparent							
Novaform® HKS 243 E BIO	Blue	t	4	-	-	-	Opaqu								
Novaform® HKS 47 E BIO	Blue	t	8	+	+	+									
Novaform® HKS 53 E BIO	Green	t	8	+	+	+	* Devia	* Deviating colour shade when printing on coated papers.							
							_								
Novavit® BCS BIO INTENSIV Transparent white	Colourless	t													
Novaform® 612 (correspond to HKS 88K)	Black	0	8	+	+	+									

Drying properties Drying by oxidation and setting, duct-fresh.

Substrates Ideally suited for uncoated endless papers for continuous printing.

The HKS® E_N colour book was matched on RF 80 g/m² Nordland woodfree white.

The ink film thickness: approx. 1.2 g/ m^2 .

Further information For single printing two additional base colour inks are available:

Novaform® HKS® 7 E BIO - Orange Novaform® HKS® 43 E BIO - Blue

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Hints for mixing of colour book shades

Due to their high colour intensity and mono-pigmentation, the HKS® base colour inks of the series Novavit® HKS® K BIO, Novavit® HKS® N BIO INTENSIVE and Novaform® HKS® E BIO are perfectly suited to mix the colour book shades. The mixing recipes are based on HKS® base colour inks, transparent white and black, and can be found in the colour books of the individual series.

Hints for further processing in laser printers

Prints that are made with Novaform® HKS® E BIO can be processed in all common laser printers due to their specific binder composition. Before starting further processing, the inks have to be dried completely.

Fastness properties and print finishing

The fastness properties of the base colour inks of all 3 series are stated in the tables on the previous pages. The fastness properties of all other colour shades can be found in the colour books.

For further information on this topic please also refer to our Technical Review "Resistance requirements for surface finishing".

Colour books

The following colour books are available:

HKS® K colour book - article code: XW90-7500-9954 HKS® N colour book - article code: XW90-7513-9954 HKS® E_n colour book - article code: XW90-7515-9954 HKS® E_k colour book - article code: XW90-7516-9954 HKS® K 3000+ colour book - article code: XW90-7511-9954 HKS® N 3000+ colour book - article code: XW90-7512-9954

The colour books HKS® K 3000+ and HKS® N 3000+ include 3520 solid colour shades, that were developed on the base of the existing 88 HKS® colour shades. Each HKS® colour shade is now available in 39 nuances, that can be obtained as solid colours in proven HKS® colour fidelity.

Exceptions

HKS® inks are not for use on food packaging without functional barrier.

Additives

BCS Reducer BIO 19 789 - Thinner

To adapt viscosity and tack 1 - 3 % can be added.

Further information

Further information on the HKS® Colour System and about additional products such as the HKS® DTP package for example, can also be found on the internet under www.HKS-Farben.de.

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