



!NKREDIBLE

PERFEXION®

The high-gloss sheet-fed offset process series based on renewable raw materials for higher densities - mineral oil-free

!NKREDIBLE PERFEXION® inks are the high-gloss formulation of the sheet-fed offset series based on !NKREDIBLE printing-ink technology.

When the **huber**group introduced its HIT technology in the mid 1990s, the Group succeeded in generating printing inks that, thanks to the optimum coordination of formulation and production process, set the standard for the sheet-fed offset segment over a period spanning some ten years.

The global expansion undergone by the **huber**group now allows it to rigorously pursue this path further. The systematic exchange of know-how and the high level of cooperation practised between the Group's chemical and process engineers all around the world, together with innovative ideas on raw-material synthesis and on ink formulation, laid the perfect foundation for the new !NKREDIBLE generation of printing inks, which takes full account of the continuous developments on the press side and the increased demands with respect to process standardisation.

Special hard resins, pigments with optimised surface characteristics and new production technology form the basis of the !NKREDIBLE ink systems, which guarantee exceptional printing stability and fantastic print results.

!NKREDIBLE inks fulfil all the demands of the newest generation of high-speed printing presses, whether for jobs with low ink coverage and high degree of emulsification or jobs with extreme requirements with regard to print contrast. The !NKREDIBLE sheet-fed offset series guarantee optimum print results every time, in every situation.

Highly transparent and pure pigments enable to satisfy the specifications of DIN ISO 2846-1 and/ or 12 647-2, as too the low degree of variation in dot gain between the four process colours, which guarantees a neutral grey balance without dot loss in the production run.

!NKREDIBLE PERFEXION® is the high-gloss, standard-setting, sheet-fed offset series designed specifically for perfecting jobs that demand higher optical densities. The inks' high degree of gloss, in combination with colour-intensive, pure hues and ideal trapping characteristics, guarantees fantastic and highly impressive levels of contrast.

!NKREDIBLE PERFEXION® Fastness properties per ISO 2836 / 12 040

		Light BWS	Alcohol	Solvent mixture	Alkali
Yellow	41 F 50 PX	5	+	+	+
Magenta	42 F 50 PX	5	+	+	- *
Cyan	43 F 50 PX	8	+	+	+
Black	49 F 50 PX	8	-	-	+

F = duct-fresh formulation

* not suitable for posters

Special properties

- Average setting speed
- Ideally suited to perfecting presses
- Good stackability with minimal powder spraying
- Fantastic gloss
- Good rub resistance
- Suitable for higher optical densities
- Color shades in compliance with DIN ISO 2846-1 / 12647-2
- Neutral grey balance
- High fountain solution tolerance
- Immediate adjustment of a stable ink/water balance
- Excellent stability in the production run
- Ideally suited to IPA-free printing

Range of applications

The **!NKREDIBLE PERFEXION®** process series is particularly suitable for exceedingly high-gloss print jobs on coated and on absorbent and less glossy stocks. Jobs that have to be conducted in compliance with DIN ISO 12647-2 can be run just as problem-free as jobs that demand higher optical densities. The special formulation of the series facilitates a high-contrast, brilliant finish for jobs with high optical densities, without having to make concessions with respect to the drying properties of the inks. In the case of jobs with low ink coverage, **!NKREDIBLE PERFEXION®** inks call for precise monitoring of the process parameters, because they react more sensitively to variations in the process when film weights are low. They stand out thanks to their low level of dot gain and high fountain solution tolerance. The series' good rub resistance and average setting speed mean it can be deployed as a true all-rounder. It is also ideally suited to printing on 8- and 10-colour perfecting presses.

General requirements for the packaging of food and semi-luxury goods

Food and semi-luxury goods packaging must not transfer any components to the packed product which

- endanger human health,
- bring about a change in the taste or odour of the packaged goods, or
- bring about a change in the composition or the appearance of the packaged goods.

Therefore sheet-fed offset printing inks used for the production of food and semi-luxury goods packaging must be „low migration“ and must not affect the taste and odour of the packed product.

The oxidative drying ink **!NKREDIBLE PERFEXION®** may release odour-generating by-products during the drying process and is neither low-migration nor low-odour. Oxidative drying standard printing inks like **!NKREDIBLE PERFEXION®** are generally not recommended by member companies of the **hubergroup** for the production of packaging for food and semi-luxury goods. These inks can only be used for this purpose if any transfer of substances from the printed ink film to the packed product (by migration or set-off) as well as a deterioration of the organoleptic properties of the packed product is excluded by suitable packaging design, by appropriate processing conditions and the use of a primary packaging material with sufficient barrier properties.

For further information, please refer to our information sheet „Note regarding the use of standard sheetfed offset printing inks (setting and/or oxidative drying) and standard water-based varnishes for the manufacture of food packaging made of paper and board“.

Properties

Gloss	low		very high
Rub resistance	medium		very good
Dot definition	low		high
Setting	slow		very rapid
Postprint finishing	slow		very rapid
Suitability for 8-colour perfecting	poor		very good

Printing auxiliaries

INKREDIBLE PERFEXION® process inks are supplied ready to use. Should it become necessary, under exceptional circumstances, to adapt the process inks to special printing conditions, auxiliaries should be used which are compatible with the highly developed vehicle system:

- for reducing tack with substrates that are susceptible to picking **Ink Oil 10 T 1405**,
- for accelerating oxidative drying **MONSUN 10 T 7265**.

Classification

Safety Data Sheet available on request.

How supplied

2,5-kg vacuum-sealed cans

Containers

2,0-kg cartridges

Contact addresses for advice and further information can be found under www.hubergroup.de

This Technical information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.