

!NKREDIBLE

IMPRESSION®

The rub-resistant sheet-fed offset process series based on renewable raw materials for high-contrast prints - mineral oil-free

!NKREDIBLE IMPRESSION® inks are the highly rub-resistant and high-contrast 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.

IMPRESSION® is the rub-resistant, standard-setting sheet-fed offset ink series designed specifically for printing on matt-coated papers and substrates with surfaces susceptible to abrasion. Thanks to its exceedingly high-contrast performance, IMPRESSION® is particularly suitable for jobs that demand higher optical densities. The inks' high resistance to mechanical stress, in combination with brilliant, pure hues and ideal trapping characteristics, guarantees print results that will impress even sceptics.

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

		Light BWS	Alcohol	Solvent mixture	Alkali
Yellow	41 F 10 IP	5	+	+	+
Magenta	42 F 10 IP	5	+	+	- *
Cyan	43 F 10 IP	8	+	+	+
Black	49 F 10 IP	8	-	-	+

F =duct-fresh formulation

* not suitable for posters

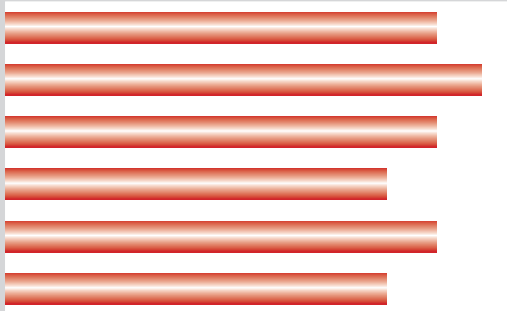
Special properties

- Excellent rub resistance on all absorbent substrates
- Exceedingly high-contrast
- Average setting speed
- Highly suited to perfecting presses
- Good stackability with minimal powder spraying
- Good gloss
- Color shades in compliance with DIN ISO 2846-1 and 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 IMPRESSION® process series is particularly suitable for jobs on matt-coated papers that demand the best possible degree of rub resistance from the inks used. That said, IMPRESSION® also produces outstanding results on all grades of absorbent substrate susceptible to mechanical stress. Jobs that have to be conducted in compliance with DIN ISO 12647-2 can be run 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 higher 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, IMPRESSION® inks call for precise monitoring of the process parameters, because they react more sensitively to variations in the process when film weights are low. IMPRESSION® stands out thanks to its low level of dot gain and high fountain solution tolerance. Its good gloss and average setting speed mean it can be deployed as a true all-rounder.

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

IMPRESSION® process inks are supplied ready to use. Should it become necessary, under exceptional circumstances, to adapt the process inks to special 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 S 7265**.

Classificaton

Code per German law on hazardous substances (GefStoffV): None

Danger class per German ordinance on flammable liquids (VbF): None

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.