



Technical Data Sheet – Version as of 08/08/2014

PANTONE BASES APPS

Artes Print Pantone System is a ready-to-print offset base ink mixing system. Suitable for sheetfed printing of packaging, labels and any other spot colour work on fibre-based substrates as paper and board. For use on all types of multicolour sheetfed offset presses up to 12 colours printing straight ahead or perfecting. Exceptional lithographic stability and excellent ink lay in solids and screened pictures.

Artes Print Pantone System base inks are finished inks and comply with the colour specifications of Pantone Inc.

Artes Print Pantone System can be printed in-line with water-based coatings or in-line/off-line with oil-based sealers to accelerate the print shop workflow. The application of UV coatings (in-line or off-line) might require the use of a primer. When printing without in-line coating, Artes Print does not recommend the use of IR dryers.

SPECIAL APPLICATIONS AND PRECAUTIONS

Artes Print Pantone System is optimised for printing on absorbent substrates as paper and cardboard. Difficult substrates as chromocarton, PE-coated board do not allow the penetration of printing ink oil. To improve oxidative drying and adhesion on such substrates, 10-20% Foils Paste H 5068 should be added. The use of 1% Grafo drier is favourable. Adhesion and drying on difficult substrates cannot be precisely predicted. Product oriented testing is absolutely recommended before running a commercial print.

For printing on plastics and foils, Artes Print offer special Foils inks and a wide range of UV curable inks.

SPOT COLOUR SPECIFICATION

Artes Print Pantone System base inks are designed to match all shades which are shown in the PANTONE Colour Guide.

First guideline for matching these shades is the recipe printed in the colour guide.

Depending on the colour (whiteness) and surface properties one and the same spot colour might appear differently when being printed on various substrates. Further to this it must be noted that most colours change during the drying process of the ink. If the print is in-line varnished this effect is minimised. These effects must be respected if a precise colour specification is agreed. Dark colours and those of high colour strength often show the so-called bronzing effect which is a colour impression varying with the observation angle. This is not a product failure and influenced by the surface of the substrate. In-line varnishing or foil lamination eliminates the bronzing effect.

Our Products are intended for sale to professional users. The information herein is general information designed to assist customers in determining the suitability of our products for their applications. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Artes Print 2012 be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.

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ENVIRONMENTAL

It is Artes Print's policy to reduce progressively ecological impacts and resource intensity throughout the life-cycle of their products. When selecting raw materials we follow strictly the EuPIA Raw Material Exclusion List (www.eupia.org) and respect the CONEG regulation on toxic heavy metals Artes Print Pantone System is vegetable based.

FOUNTAIN SOLUTIONS

Artes Print Pantone System process inks are compatible with a wide range of fountain solutions. Isopropanol (IPA) reduction or elimination is supported. Artes Print recommends the following ideally adapted products:

- Fount 410; suitable for 5-7% IPA in normal water qualities.
- Fount 480; suitable for 3-6% IPA, to prevent roller glazing.
- Fount 455; suitable for 0-5% IPA, adapted for IPA free printing.

The quality of the water and the overall printing conditions has a strong impact on the choice of fountain solution and the level of IPA required. Please consult our technical services for assistance.

WATER-BASED OVERPRINT VARNISHES

Artes Print offers a full portfolio of water-based overprint varnishes. The final choice depends on individual press conditions, the substrate used and the expectations on the print regarding visual appearance. The following products are widely used:

ARTCoat 2431 gloss coating, suitable for work & turn jobs on paper and board

ARTCoat 9265 matt coating, suitable for work & turn jobs on paper and board

ARTCoat 9205 primer for in-line UV coating

ARTCoat 9206 primer for off-line subsequent UV coating.

APPLICATION INFORMATION

Artes Print Pantone System process inks dry by absorption and oxidation. They are duct fresh and supplied ready for use. The use of additives is not required.

Artes Print Pantone System is suitable for all types of offset printing plates.

Artes Print Pantone System is not recommended for sensitive food packaging and outdoor posters or for printing on impervious substrates (films, foils).

For further detailed application advice please contact our technical services. A Material Safety Data Sheet is available on request.

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FASTNESS AND RESISTANCE REQUIREMENTS

During its lifetime, a print might change its colour. Light fastness and resistance parameters describe the ability of the print to maintain the colour under the conditions of its application. The product table (see page 18 of this document) contains the evaluated parameters using test methods agreed in international standards. The parameters of the pure base inks may differ from those of a blended spot colour. As a general rule, it is the base ink with the lowest resistance that defines the overall fastness/resistance value. Higher pigmented inks are usually more persistent, the resistance is reduced the more the strength of the shade is reduced. Resistance levels can also vary in practice caused by a number of factors as pigment compositions, substrate, colour strength, film weight used, the printed picture (solids, screened half-tones), storage conditions, exposure time etc.

LIGHT FASTNESS

Light fastness is important where prints are exposed to sunlight. Inks for outdoor poster application should reach at least a light fastness of WS 6 (and should be alkali resistant because of the potential use of alkaline glue). The light fastness for inks for packaging varies with the intended use. Packaging which are supposed to be stored under illuminated conditions should have a light fastness of not lower than WS 5.

CHEMICAL RESISTANCES

Resistance properties play a role when the prints are processed (varnishing, foil-laminating) or the prints are exposed to chemicals, as detergents. Water-based overprint varnishes may contain solvents or ammonia, which can require the resistance against alkaline and alcohol. A test under practice conditions is advised. UV coatings contain monomers which might have an impact on the print. Often alkaline, alcohol and solvent resistance are demanded. Again, a test under practice conditions is recommended.

AVAILABLE PRODUCTS

Product Code	Product Name	LIGHT FASTNESS ISO 12040	ALCOHOL ISO 2836	SOLVENT MIXTURE ISO 2836	ALKALI ISO 2836
BSEX90123880	PANTONE YELLOW 012	5	+	+	+
BSEX90123882	PANTONE PROCESS BLUE	8	-	-	-
BSEX90123887	PANTONE YELLOW	5	+	+	+
BSEX90123892	PANTONE ORANGE 021	5	+	+	+
BSEX90123900	PANTONE WARM RED	3	-	-	-
BSEX90123907	PANTONE RED 032	5	-	-	+
BSEX90123914	PANTONE RUBINE RED	5	+	+	-
BSEX90123921	PANTONE TRANSP WHITE				
BSEX90123927	PANTONE BLACK	8	+	+	+
BSEX90123931	PANTONE PURPLE	4	-	-	-
BSEX90123933	PANTONE VIOLET	4	-	-	-
BSEX90123938	PANTONE RHODAMINE RED	4	-	-	-
BSEX90123940	PANTONE BLUE 072	4	-	-	-
BSEX90123945	PANTONE REFLEX BLUE	4	-	-	+
BSEX90123953	PANTONE GREEN	8	+	+	+

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Intense Colours

The following advanced sheetfed offset inks based on vegetable oil technology are offered to supplement Artes Print Pantone System inks with products of similar shade and higher intensity.

This information should be read in conjunction with the technical information leaflet for Artes Print Pantone System.

Product Code	Product Name	Light fastness ISO 2835	Alcohol ISO 2837	Solvent Mixture ISO 2837	Alcali ISO 2838
BSEX90123896	INTENSE WARM RED	3	-	-	-
BSEX90123911	INTENSE 032 RED	5	+	-	+
BSEX90123958	INTENSE 072 BLUE	4	-	-	-
BSEX90123951	INTENSE REFLEX BLUE	4	-	-	+

The resistances indicated in the table correspond to full strength colours.

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