Kao Collins Inkjet standard colours
In addition to the variety of customized ink solutions, Kao Collins also offers cyan, magenta and yellow pigment-based ink formulations and 14 standard colour dye-based formulations. All standard colours are also available in heads-up formulations. Kao Collins can also colourmatch virtually any Pantone Matching System (PMS) colour. Please contact your local HSA representative for more information.

<table>
<thead>
<tr>
<th>Colour</th>
<th>PMS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM457 Blue</td>
<td>286 U</td>
</tr>
<tr>
<td>CM488 Blue</td>
<td>295 U</td>
</tr>
<tr>
<td>CM500 Red</td>
<td>186 U</td>
</tr>
<tr>
<td>CM501 Cyan</td>
<td>Process Blue U</td>
</tr>
<tr>
<td>CM502 Blue</td>
<td>Reflex Blue U</td>
</tr>
<tr>
<td>CM503 Green</td>
<td>348 U</td>
</tr>
<tr>
<td>CM506 Red</td>
<td>206 U</td>
</tr>
<tr>
<td>CM784 Orange</td>
<td>151 C</td>
</tr>
<tr>
<td>CM785 Yellow</td>
<td>1235 U</td>
</tr>
<tr>
<td>CM787 Magenta</td>
<td>218 C</td>
</tr>
<tr>
<td>CM788 Brown</td>
<td>1615 C</td>
</tr>
<tr>
<td>CM789 Purple</td>
<td>Violet C</td>
</tr>
<tr>
<td>CM790 Green</td>
<td>327 C</td>
</tr>
<tr>
<td>CM791 Red</td>
<td>1955 C</td>
</tr>
</tbody>
</table>

*) Corresponding PMS number may not accurately represent printed colour.

Reliable H Colours
Matte, glossy papers & chipboard style substrates
Kao Collins Reliable H dries extremely quickly on coated stocks. This ink also requires very little printhead maintenance when compared to our other inks. The Reliable H is available in TWRI370 Red, T6G1371 Green, TwY1372 Yellow and TWB1374 Blue. Colourant type: Dye.

MAX2 Colours: TWR1397 Red / TWY1443 Yellow
PVc, plastic cards, & aqueous media
Kao Collins MAX inks utilize a solvent and water mixture to give the ink excellent water-fastness and permanence on a wide variety of non-porous substrates. Colourant type: Pigment.

Bear Colours: TS82100 Blue / TS62067 Green / TSR2008 Red
Aggressive - print on difficult substrates
The BEAR inks are solvent-based inks that perform well on most difficult substrates such as UV coatings and plastics. The Bear inks do not require a UV curing lamp, and most often, do not need a conventional IR dryer. Note: Flammable.

Solv-Jet Colours: TS8253200si Blue/TSG253104si Green/TSR253004si Red
Fast dry and permanent in on difficult substrates
Solv-Jet colours are solvent-based inks formulated for difficult media such as plastic wrap, PVC, Tyvek, foils, UV coats, varnish and some metals where fast dry time is needed. Note: Flammable.

CM631 UV Invisible
Porous & lightly coated stock
The CM631 is an invisible ink that is only visible under an ultra violet light. This ink can be used on both offset and coated stocks that do not contain optical brighteners. The Kao Collins invisible ink is great for security and insert/envelope matching applications. Colourant type: Proprietary.

TWW1284 IR Invisible
for coated or non-coated stock
The TWW1284 is an invisible ink that is only visible under infrared (IR) light. This ink can be used on both offset and coated stocks. The TWW1284 is great for security and insert/envelope matching applications. Colourant type: Proprietary.

TWW1406 MAX UV
For plastic card and PVC substrates
Max UV is an invisible ink that is only visible under an ultra violet light source. This ink can be used on both offset and coated stocks that do not contain optical brighteners. This Kao Collins invisible ink is great for security and insert/envelope matching applications. Colourant type: Proprietary.

TWW1929 UV RED Spectra
Coated & non-coated substrates
Invisible UV Fluorescent red ink. The TWW1929 Red Spectra is for substrates that have optical brighteners in them. Colourant type: Proprietary.

CM835 Fluorescent Blue / CM838 Fluorescent Red
Porous and lightly coated
The CM835 Fluorescent Blue is approximately a PMS 311U. The CM838 Fluorescent Red is approximately a PMS 223U. These inks can be used on both offset and coated stocks that do not contain optical brighteners.

*) Corresponding PMS number may not accurately represent printed colour.
Kao Collins Inks
COLOUR INKS FOR HP TIJ 2.5

Storage conditions
Less than 24 hours:
Leave cartridge in printer.
Wipe and purge before use.

More than 24 hours:
Remove cartridge from printer and
place a cartridge clip over the head.
Wipe and purge before use.

Storage temperature
Aqueous and solvent inks: 10-30°C

Operating temperature
Aqueous and solvent inks: 10-40°C

Shipping info
Solvent based inks are flammable and
must ship according to UN1210/3.

Cartridge maintenance and handling
Clean the cartridge with a lint free cloth
and wipe slowly and lightly across the
long edge with the printhead facing down.

Aqueous inks
Use a lint-free cloth moistened with
deonised water to clean the printhead.

Solvent inks
Use a dry lint-free cloth to clean the
printhead.

Ink name  Colour  Substrates  Ink type  Avg.
 delivered ink  Colourant type  Shelf life  Voltage  Pulse warming**  Pulse width  Drying
time*  Decap time

Standard colours
14 standard colours  Matte, glossy, chipboard style  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-4 sec  < 12 min

Standard colours heads-up
14 standard colours  Matte, glossy, chipboard style  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-7 sec  < 4 hr

Reliable H Colours
Red, green, yellow, blue  Matte, glossy, chipboard style  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-2 sec  > 30 min

MAX2 Colours
Red, yellow  PVC, plastic cards, aqueous media  Aqueous  42 ml  Pigment  12 mths  10.2 V  Off  2.2 μsec  1-5 sec  > 1 hr

BEAR Colours
Blue, green, red  Aggressive - prints on difficult substrates  Solvent  42 ml  Dye  12 mths  7.6 V  40°C  1.8-2.0 μsec  1-5 sec  < 1 min

Solv-Jet Colours
Blue, green, red  Plastic wraps, PVC, Tyvek, foils, metals  Solvent  42 ml  Dye  12 mths  8.4 V  40°C  1.8 μsec  1-5 sec  < 5 min

CM631 UV Invisible
Visible under ultra violet light  Porous & lightly coated stock  Aqueous  42 ml  Proprietary  12 mths  10.0 V  Off  2.2 μsec  1 sec  < 30 min

TWW1284 IR Invisible
Visible under infrared light  Coated & non-coated stock  Aqueous  42 ml  Proprietary  12 mths  10.2 V  Off  2.2 μsec  1-2 sec  < 30 min

TWW1406 MAX UV
Visible under ultra violet light  Plastic cards, PVC  Aqueous  42 ml  Proprietary  12 mths  10.0 V  Off  2.2 μsec  1-5 sec  < 2 hr

TWW1929 UV RED Spectra
Red  Coated & non-coated  Aqueous  42 ml  Proprietary  6 mths  10.2 V  40°C  2.2 μsec  1 sec  < 4 hr

CM835 / CM838 Fluorescent
Blue / Red  Porous & lightly coated  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-3 sec  < 1 min

* Substrate dependent
** HSA Systems’ recommended Pulse Warming

Storage conditions
Less than 24 hours:
Leave cartridge in printer.
Wipe and purge before use.

More than 24 hours:
Remove cartridge from printer and
place a cartridge clip over the head.
Wipe and purge before use.

Storage temperature
Aqueous and solvent inks: 10-30°C

Operating temperature
Aqueous and solvent inks: 10-40°C

Shipping info
Solvent based inks are flammable and
must ship according to UN1210/3.

Cartridge maintenance and handling
Clean the cartridge with a lint free cloth
and wipe slowly and lightly across the
long edge with the printhead facing down.

Aqueous inks
Use a lint-free cloth moistened with
deonised water to clean the printhead.

Solvent inks
Use a dry lint-free cloth to clean the
printhead.

Ink name  Colour  Substrates  Ink type  Avg.
 delivered ink  Colourant type  Shelf life  Voltage  Pulse warming**  Pulse width  Drying
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Standard colours
14 standard colours  Matte, glossy, chipboard style  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-4 sec  < 12 min

Standard colours heads-up
14 standard colours  Matte, glossy, chipboard style  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-7 sec  < 4 hr

Reliable H Colours
Red, green, yellow, blue  Matte, glossy, chipboard style  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-2 sec  > 30 min

MAX2 Colours
Red, yellow  PVC, plastic cards, aqueous media  Aqueous  42 ml  Pigment  12 mths  10.2 V  Off  2.2 μsec  1-5 sec  > 1 hr

BEAR Colours
Blue, green, red  Aggressive - prints on difficult substrates  Solvent  42 ml  Dye  12 mths  7.6 V  40°C  1.8-2.0 μsec  1-5 sec  < 1 min

Solv-Jet Colours
Blue, green, red  Plastic wraps, PVC, Tyvek, foils, metals  Solvent  42 ml  Dye  12 mths  8.4 V  40°C  1.8 μsec  1-5 sec  < 5 min

CM631 UV Invisible
Visible under ultra violet light  Porous & lightly coated stock  Aqueous  42 ml  Proprietary  12 mths  10.0 V  Off  2.2 μsec  1 sec  < 30 min

TWW1284 IR Invisible
Visible under infrared light  Coated & non-coated stock  Aqueous  42 ml  Proprietary  12 mths  10.2 V  Off  2.2 μsec  1-2 sec  < 30 min

TWW1406 MAX UV
Visible under ultra violet light  Plastic cards, PVC  Aqueous  42 ml  Proprietary  12 mths  10.0 V  Off  2.2 μsec  1-5 sec  < 2 hr

TWW1929 UV RED Spectra
Red  Coated & non-coated  Aqueous  42 ml  Proprietary  6 mths  10.2 V  40°C  2.2 μsec  1 sec  < 4 hr

CM835 / CM838 Fluorescent
Blue / Red  Porous & lightly coated  Aqueous  42 ml  Dye  12 mths  10.2 V  Off  2.2 μsec  1-3 sec  < 1 min

* Substrate dependent
** HSA Systems’ recommended Pulse Warming

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