



# Specialty Certificate S2 & 3 Evaluation Report

For HP Indigo



| Supplier Contact Information    |   |
|---------------------------------|---|
| Supplier Name                   | Fedrigoni Spa                               |
| Supplier Address                | Viale Piave 3, Verona (VR), 37135           |
| Supplier Country                | Italy                                       |
| Product Name                    | Sirio Ultra Black for HP Indigo             |
| Product Category                | Paper                                       |
| Grammage (gsm)/Basis weight (#) | 280 gsm                                     |
| Microns/Caliper                 | 330 um                                      |
| Certification Number            | RI7500-19-5975                              |
| Certification Center            | RIT   |
| Date of Evaluation              | 02/26/2020                                  |
| Evaluated on                    | HP 7500                                     |
| Certified for                   | 7500, 7000, 7600, 7800, 7900, 10000 & 12000 |
| Evaluation Process              | White Ink                                   |

### Certification Validity

This substrate is certified for the next two years from the date of evaluation, provided there is no change to the substrate properties or production processes. At the end of two years from the original evaluation date, if there have been no changes in paper properties or production processes, the certification can be extended for another two years. After four years from the original certification date, a new certification is required.

| Evaluation            | Measure                                     | Result | Grade (stars) | Comments |
|-----------------------|---|--------|---------------|----------|
| Runability            |   |        | ★ ★ ★         |          |
| Simplex               | Number of Jams                              | 0      |               |          |
| Duplex                | Number of Jams                              | 0      |               |          |
| Fixing                |   |        | ★ ★ ★         |          |
| Peeling               | 100% K in 4 color mode,<br>% ink remaining  | 100%   |               |          |
|                       | 400% YMCK 100% each<br>color, Visual Damage | 100%   |               |          |
| Blanket Compatibility |   |        | ★ ★ ★         |          |
| White Ink Recommended |   | Yes    |               |          |
| Color Registration    | CPR quality job                             | Pass   |               |          |
| Evaluation Result     |   | Pass   |               |          |

Comment Detail:

The substrate certification procedure incorporates several processes. This checks for:

**Runability:**

The ability of the substrate to run smoothly through the press in various print modes.

**Fixing:**

Ink-substrate interaction as determined by the degree of ink adhesion to the substrate for standard applications as measured in a tape peel test of the image.

**Blanket-substrate interaction as determined by:**

- 1) Ink-transferability, which is the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity;
- 2) 'Blanket Memory' effects, reflected in gloss or density differences between solids and background areas of the previously printed image; and
- 3) Number of cleaner pages, in which blankets are routinely maintained by performing a self cleaning procedure ("cleaner pages") used to refresh the blanket's release layer.

**Color registration (CPR):**

The ability of the substrate to be printed with acceptable color-to-color registration in the four color process. Synthetic materials are generally more sensitive to CPR issues.

**Star Rating**

- ☆☆☆ Best performing substrate: no blanket memories or very minor memories.
- ☆☆ Recommended substrate: some print cleaners may be needed; slight memories may be seen up to 1.2K impression.
- ☆ Good substrate: print cleaners generally required; some memories may be seen by 1.2K impressions.

|                          |  | ☆☆☆   | ☆☆                         | ☆                          |
|--------------------------|--|---|----------------------------|----------------------------|
|                          | Measurement  | Best-performing substrate                   | Recommended substrate      | Good substrate             |
| Transport                | Runnability  | No jam and minor issues                     | 1 jam or minor issues      | 1 jam and minor issues     |
| Fixing                   | Peeling: 100% K, at 10 minutes                       | Visually NO damage (ignoring gloss changes) | >90%                       | >80% at one hour           |
|                          | Peeling: 400% YMCK, 100% of each color at 10 minutes | Visually NO damage (ignoring gloss changes) | Any damage (visually)      | Any damage (visually)      |
| Blanket Compatibility    | Cleaner sheets clean after 1.2 K                     | 1st cleaner sheet is clean                  | 3rd cleaner sheet is clean | 5th cleaner sheet is clean |
| Color registration (CPR) | CPR quality job                                      | Pass/Fail                                   |                            |                            |

The specialty test is a shorter test compared to the standard certification procedure, and is intended for media where low print volumes are expected. In addition to runnability, fixing and blanket compatibility, selected Print Quality parameters such as Color Plane. Registration (CPR) are also evaluated. For certain substrates, particularly synthetics, special press procedures may need to be applied to obtain acceptable CPR.

HP Indigo customers must test per their specific application needs and determine if the media meets customer requirements.

