

## SUPPLEMENT 1

Table 1: Group and sample codes generated according to the use of sizing, ink, and adhesive material.

|                | 0           | 1                | 2               | 3          |          |   |   |       |
|----------------|-------------|------------------|-----------------|------------|----------|---|---|-------|
| Sizing         | No sizing   | Egg W-white-alum | Rice-gum arabic | X          |          |   |   |       |
| Ink            | No ink      | Iron gall        | Carbon Black    | X          |          |   |   |       |
| Material       | No material | 7% HL            | 10 % HL         | 10% Starch |          |   |   |       |
| Sample codes   | Sizing      |                  | Ink             |            | Material |   |   |       |
|                | 0           | 1                | 2               | 0          | 1        | 2 | 0 | Group |
| 0.0<br>(blank) | X           |                  |                 |            |          |   |   | 0.0   |
| 0.0.1          |             |                  |                 | X          |          |   |   | 0.0   |
| 0.0.2          |             |                  |                 | X          |          |   |   | 0.0   |
| 0.0.3          |             |                  |                 | X          |          |   |   | 0.0   |
| 0.1.0          |             |                  |                 |            | X        |   |   | 0.1   |
| 0.1.1          |             |                  |                 |            | X        |   |   | 0.1   |
| 0.1.2          |             |                  |                 |            | X        |   |   | 0.1   |
| 0.1.3          |             |                  |                 |            | X        |   |   | 0.1   |
| 0.2.0          | X           |                  |                 |            |          | X |   | 0.2   |
| 0.2.1          |             |                  |                 |            |          | X |   | 0.2   |
| 0.2.2          |             |                  |                 |            |          | X |   | 0.2   |
| 0.2.3          | X           |                  |                 |            |          |   | X | 0.2   |
| 1.0.0          |             | X                |                 |            |          |   | X | 1.0   |
| 1.0.1          |             |                  |                 | X          |          |   |   | 1.0   |
| 1.0.2          |             |                  |                 |            | X        |   |   | 1.0   |
| 1.0.3          |             | X                |                 |            |          |   |   | 1.0   |
| 1.1.0          |             |                  |                 |            | X        |   |   | 1.1   |
| 1.1.1          |             |                  |                 |            | X        |   |   | 1.1   |
| 1.1.2          |             |                  |                 |            | X        |   |   | 1.1   |
| 1.1.3          |             |                  |                 |            | X        |   |   | 1.1   |
| 1.2.0          |             |                  |                 |            | X        |   |   | 1.2   |
| 1.2.1          |             |                  |                 |            | X        |   |   | 1.2   |
| 1.2.2          |             | X                |                 |            |          | X |   | 1.2   |
| 1.2.3          |             |                  |                 |            | X        |   |   | 1.2   |
| 2.0.0          |             |                  | X               |            |          | X |   | 2.0   |
| 2.0.1          |             |                  |                 | X          |          |   |   | 2.0   |
| 2.0.2          |             |                  |                 |            | X        |   |   | 2.0   |
| 2.0.3          |             |                  |                 |            | X        |   |   | 2.0   |
| 2.1.0          |             |                  |                 |            | X        |   |   | 2.1   |
| 2.1.1          |             |                  |                 |            | X        |   |   | 2.1   |
| 2.1.2          |             |                  |                 |            | X        |   |   | 2.1   |
| 2.1.3          |             |                  |                 |            | X        |   |   | 2.1   |
| 2.2.0          |             |                  |                 |            | X        |   |   | 2.2   |
| 2.2.1          |             |                  |                 |            | X        |   |   | 2.2   |
| 2.2.2          |             |                  |                 |            | X        |   |   | 2.2   |
| 2.2.3          |             |                  |                 |            | X        |   |   | 2.2   |