

## Improvement of Smoothness of SWP™ Pulp Mixed Paper

SWP™-pulp mixed paper after calendar treatment has excellent smoothness compared with 100% pulp paper after calendar treatment. Applications in printing are expected.

### 1. PAPERMAKING PROCEDURE and EVALUATION METHOD

#### (1) Papermaking procedure of SWP™-pulp mixed paper

Ratio of materials: N B K P / S W P = 100 / 0, 70 / 30, 50 / 50

CSF of NBKP : 430ml

SWP Grade : E620 (CSF: 340ml, mp : 135 )

E400 (CSF: 580ml, mp : 135 )

E790 (CSF: 680ml, mp : 135 )

Basis Weight : 80g/m<sup>2</sup>

Drying Condition : 110 × 2min. (Rotary Dryer)

Calendar Condition : 30 , 80 , x 50kg/cm, 1 min.

#### (2) Evaluation Method of paper properties

Smoothness : J. TAPPI No.5

(Determination equipment of smoothness by a pressurizing method)

Tensile Strength: JIS P8113

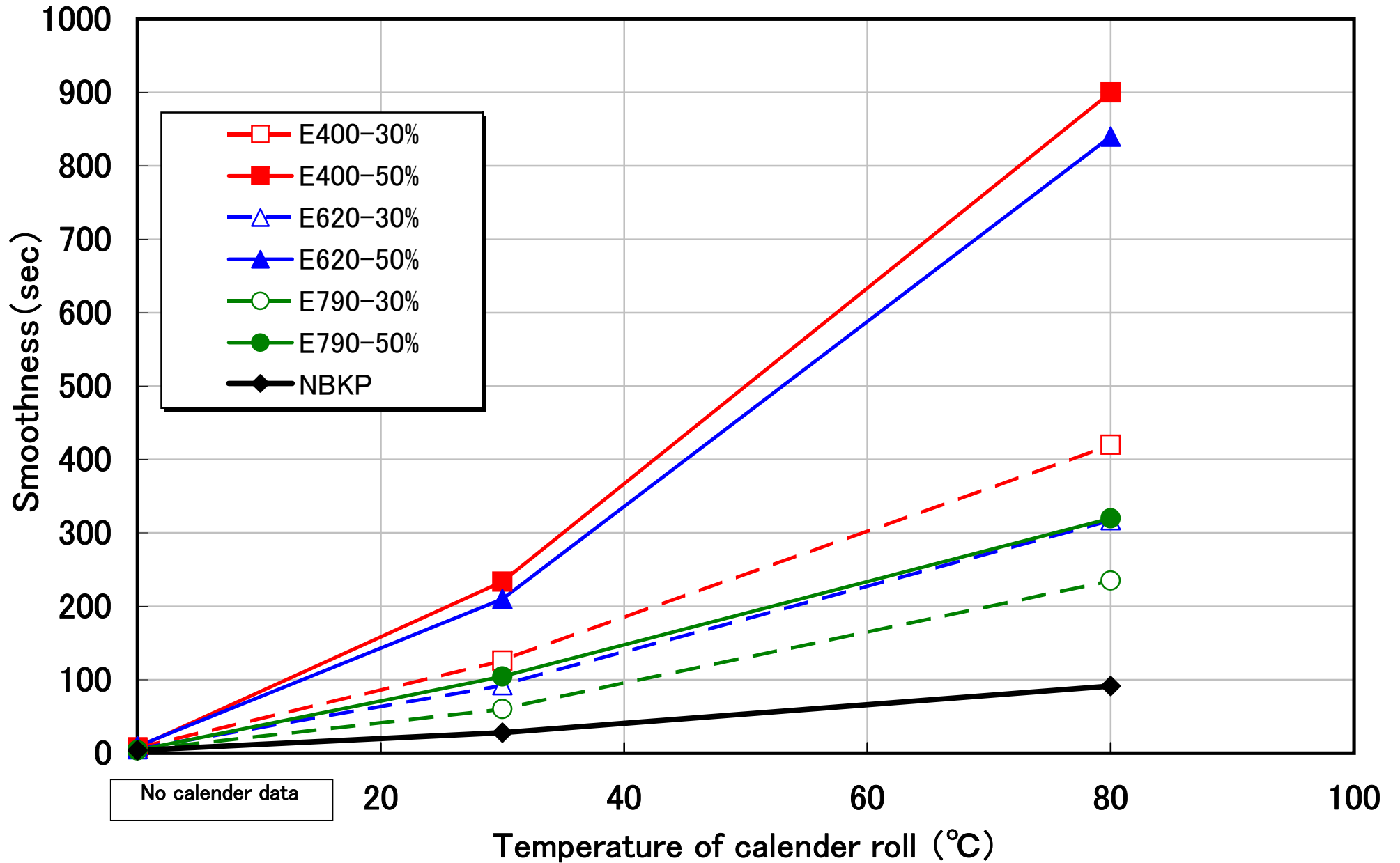
### 2. SMOOTHNESS of SWP™- PULPMIXED PAPER

- SWP™-pulp mixed paper after calendar treatment has excellent smoothness compared with 100% pulp paper after calendar treatment. (Refer to Graph 1)
- When using standard SWP grade E400 or E620, it is found that mixed paper after calendar treatment at 50 or more temperature has excellent smoothness. (Refer to Graph 1)

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To the best of our knowledge, the information contained herein is accurate.

However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Graph1. Smoothness of SWP<sup>TM</sup>-NBKP mixed paper