



Inking System — Roller Temperature

The ideal roller temperature is 25° — 28° C, below 22°C ink transfer will reduce significantly – i.e. lots of ink on rollers but a lack of density on the sheet. The printed work may look flat and an increase in Piling may be experienced. Above 30°C the ink will start to allow more water in (emulsify) it will tend to mist and fly the warmer it gets. Above 35°C Ink/Water is very difficult to control.

Scumming/Tinting is likely — Damps will be very high.

How Temperature affects Ink Transfer

1 Viscosity

2 Ink Shear

3 Reciprocation Rollers

4 Cylinder Pressures, i.e. Plate to Blanket

5 Workplace Temperatures

6 Gear side or Work side of Press