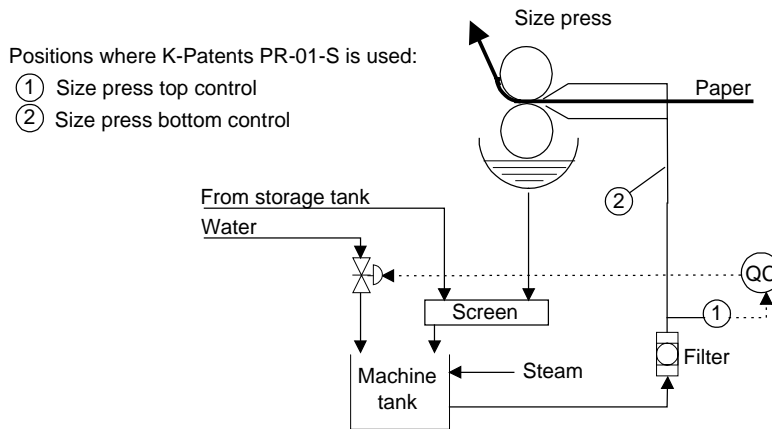


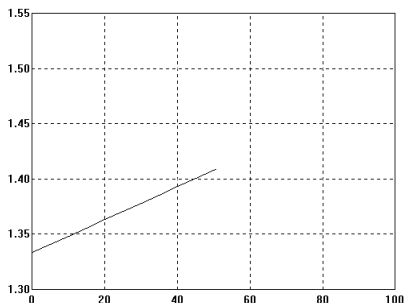
Paper Sizing: Size Press Control



Sizing liquid

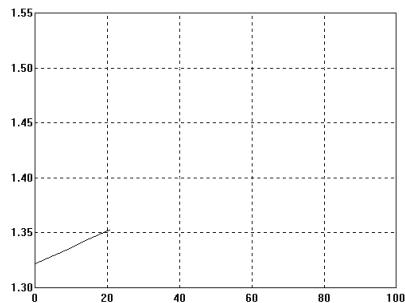
Chemical curve: R.I. per Conc% b.w.

PVA



R.I. Ref. temp. 20°C

Starch



R.I. Ref. temp. 85°C

See also

Paper Sizing 3.03.00

Paper Sizing: Starch Cooking Control 3.03.01

Introduction

The size liquid is commonly added to the paper by means of a size press or blade coater. From the storage tank the sizing liquid is pumped into the size press circulation system.

There is a constant flow from the machine tank to the size press. At the size press the sizing liquid is sprayed onto the paper. The paper absorbs some of the sizing liquid. The overflow is returned through a screen to the machine tank.

At the size press the paper absorbs more water than the sizing material. For this reason it is very important to measure sizing liquid concentration in the size press circulation system. Diluted water must be added into the circulation.

Application

K-Patents Process Refractometer, PR-01-S is used to control the sizing liquid concentration in order to optimize the paper sizing process. K-Patents PR-01-S stabilizes the sizing conditions and keeps the paper quality constant.

Installation

Typical measurement range is 0-15% starch. Usually bottom layer concentration is lower than top layer concentration. Prism wash using high pressure warm water is recommended.