



SOMERVILLE type  
SCREEN  
FRACTIONATOR  
SF-10 model

For determination of the shive content in Paper Pulp



## SOMERVILLE type SCREEN FRACTIONATOR SF-10

### APPLICABLE STANDARDS

TAPPI T275 - TAPPI UM 242 - PAPTAC C.11P

### GENERAL INFORMATION

The Somerville type classifier is designed to ensure that no useful fiber for the paper industry is included in the content of uncooked and impurities and these in useful fiber stocks. Although originally designed to determine impurities in comminuted pulps, the method is applicable to all mechanical pulps and chemical pulps. It is also widely used for the determination of stickies that are left over from recycled materials.

Thick fibers can cause difficulties in the press section of the paper machine and also during drying. Designed in accordance with the second report of the Pulp Evaluation Committee to the Technical Section of the Paper Manufacturers Association and complies with TAPPI 275.

The objective of this method is to separate the contaminants, such as stubble and impurities in wood pulp, and macro stickies, plastics, sand, pieces of metal, and flakes of recycled fiber from pulp fibers for further examination and / or quantification.

Particles larger than 0.15mm do not pass through the grid and are deposited on it. At the end of the water spraying cycle, the impurities are removed from the grid, dried and then weighed, being able to calculate the% of impurities in the analyzed pulp.

### APPLICATIONS

Shive analysis of pulps, separation of stickies and plastics from recycled fibers.

- **Robust design**
- **Safety of use**
- **Easy to use**
  
- **Rectangular stainless steel slotted plate:** 305 X 254 mm
- **Sieve grid grooves:** Length 45mm, width 0.15mm  $\pm$  0.05mm / -0.01mm)
- **Number of slots:** 756 (in 6 columns of 126 slots each)
- **Rubber diaphragm actuation:** 3.2 + -0.1 mm by eccentric actuation at 690-700 rpm
- **Water flow:** Controlled water flow through localized spray nozzles in the center of the sieve grid with a flow of 8.6 liters / min. and 1.23 Kg / cm<sup>2</sup>

### Two tester in one...

**OPTIONAL: FLAT SIEVE WITH ROUND HOLES** for the Somerville Fractionator (Holes size 2mm or 3mm each). With this sieve it can be converted into flat sieve equipment that will be used to sieve the cooked pulp and separate and measure the knots.

**POWER SUPPLY:** 230V/60Hz o 380V/50Hz triphasic

**DIMENSIONS:** 460 x 500 x 1320 mm (W x D X H)

**NET WEIGHT:** 150 Kg

**DIMENSIONS OF TRANSPORT PACKAGING:** 800 x 800 x 1800 mm (W x D X H)

**GROSS WEIGHT:** 230 Kg (Wooden packaging with phytosanitary treatment)

### STANDARD SUPPLY CONTENT:

- \* Somerville type Screen Fractionator SF-10 model