

No.2582

Schopper-Riegler freeness tester

A Schopper-Riegler freeness tester is commonly used to quickly and accurately test the beatability of pulp that is associated with the pulp performance. This tester consists of a drainage cylinder in the upper section and a measuring funnel in the bottom section. On the border of the two sections, a specified type of wire cloth is installed. Inside the drainage cylinder, a conic valve is installed, which is operated using a pulley. The measuring funnel is cone-shaped, beneath which a small drain is provided. Another drain is also provided on its side, and an air pipe is provided above the drain. Each section is fabricated precisely to the given reference dimensions. The tester is retained on a stable base provided with a leveling device.

Specimen: 2g (O.D.)

Concentration: 0.2%

Wire cloth: 100m/s

Optional: one measuring cylinder 1000cc

Referential standards: JIS P-8121-2012, ISO 5267/1

Outer dimensions: 260 x 455 x 1135mm

Instrument weight: 28kg



No.2583

Laboratory floatator

This floatator is needed in the deinking process as well as a high-concentration pulp breaker in the DIP and paper recycling processes. With this tester, the principle of the floating selection method is applied to deinking. Carbon black, vehicle, etc. are lipophilic and are deposited on foams. As foams float on the liquid surface, the inking substances are removed with foams. The floatation method has become a common method of deinking as it is advantageous in that the amount of fiber loss is minor and the water consumption is limited. Rotations of the impeller cause suction of air and agitation at the same time to generate micro air bubbles.

It ensures a stable pulp surface, no part of it remains stagnant. The operator can visually check the pulp state by seeing through the stainless-steel framed glass specimen tank. The impeller shaft is made of stainless steel. Steplessly variable speed control is enabled. A suction air volume adjustment cock is provided for adjusting air bubble generation/termination and conditioning as needed. The froth layer discharged from the specimen tank is received in a separate retainer for measurement of the total amount.

Specimen: 75g

Specimen tank: capacity 5 liters, made of SUS-304

Concentration: 1%

Rotation speed: 900 to 2500rpm

Referential standard: J.TAPPI No.39 (Deinking test method for waste paper)

Power source: 100/110VAC 50/60Hz 5A

Outer dimensions: 350 x 680 x 1380mm

Instrument weight: 56kg

