

Schopper riegler freeness tester

Product code [RL-SPR-A](#)

RYCOLAB



Usage

For the determination of the degree of refining (beating) of a pulp suspension in water and expressing it in terms of the Schopper-Riegler (SR) number, and to determine the de-watering time.

Applicable standards

ISO 5267-1 / SCAN C 19M3 / BS 6035/1

Device description

The Schopper-Riegler test is designed to provide a measure of the rate at which a dilute suspension of pulp may be dewatered. It has been shown that the drainability is related to the surface conditions and swelling of the fibres, and constitutes a useful index of the amount of mechanical treatment to which the pulp has been subjected.

In principle, this method is applicable to all kinds of pulp in aqueous suspension. However, in practice, the Schopper-Riegler test provides acceptable results only if a sufficiently dense mat of fibres is formed on the wire screen. For this reason, the test is not recommended for some extremely short-fibred pulps, such as those from well-beaten hardwoods, as most of the fibres will pass through the wire screen, resulting in anomalous reduction of the SR number. The most reliable results are obtained within the range of 10 to 90 SR number. The results of this test do not necessarily correlate with the drainage behaviour of a pulp material on a commercial paper machine.

Connections

- Air supply: 400-600 kPa

Dimensions

- Weight and dimensions: 360 x 330 x 850 mm / 38 kg