



With Drainage  
Chamber in POM \*  
\* Polyoximethylene or Polyacetal

# PNEUMATIC FREENESS TESTER "Schopper-Riegler" method SR-1 model

To determine the refining degree  
and draining velocity of paper  
fibres – Schopper-Riegler method



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**TECHLAB**SYSTEMS

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## PNEUMATIC FREENESS TESTER SR-1 model

### APPLICABLE STANDARDS

ISO 5267/1 - SCAN C 19/M3 - NF Q 50-003 - BS 6035/1...

### GENERAL INFORMATION

The Schopper-Riegler test quickly provides an idea of the degree of refining that is related to the drainage rate of a dilute pulp suspension.

Drainage speed has been shown to be related to surface conditions and fiber dilation, and is a useful indicator of the amount of mechanical treatment (refining) to which cellulose pulp is subjected.

This method is applicable to all types of pastes in aqueous suspension, except for those extremely short fiber pulps.

Measurement scale in SR degrees:

- A scale with **a discharge of 1000 ml**, corresponds to **0 ° SR**
- **A 0 ml discharge** corresponds to **100 ° SR**.
- Every **10 ml** of water poured through the lateral hole in the graduated glass represents **1 ° SR**.

This version of the Freeness Tester is similar to that of the conventional model, but more comfortable to use, since the lowering and raising of the closing cone is carried out by means of a pneumatic actuator that is activated by means of a side button.

- **Easy to use**
- **Safety of use**
- **Robust design**
- **Robust equipment built in stainless steel**
- **With Drainage Chamber in POM material (Polyoximethylene or Polyacetal)**
- **Ease of cleaning**
- **Ease of operation**
- **Ergonomic**

## TEST DESCRIPTION

- **Clean the funnel and the drain chamber carefully.**
- **Place the drain container on the funnel.**
- **Adjust the temperature of the equipment by mixing it with water at 20 +/- 0.5° C.**
- **Place the closing cone in the closed position (lower) and the SR degree graduated glass under the lateral hole.**
- **Pour 1000 ml +/- 5 ml of homogeneous paste suspension (2 g) into a measuring cup.**
- **Pour the sample quickly and carefully into the cylindrical drain container.**
- **Raise the sealing cone five seconds after the suspension has been poured.**
- **Take note of the degree °SR indicated on the graduated glass, when the lateral hole has stopped dripping water.**

PNEUMATIC FREENESS TESTER "SCHOPPER-RIEGLER" METHOD SR-1 MODEL					
Model	Upper cylinder capacity ml	Compressed air to elevate the cone Bar	Applicable Standards	Dimensions W x D x H /mm	Weight kg
SR-1	1000	4-6	ISO 5267/1 SCAN C19/M3 NF Q 50-003 BS 6035/1	380x350x870	32

**DIMENSIONS OF TRANSPORT PACKAGING:** 800 x 600 x 750 mm (W x D x H)  
**GROSS WEIGHT:** 60 Kg

## STANDARD SUPPLY CONTENT:

- \* Pneumatic Freeness Tester Schopper-Riegler method SR-1 model
- \* 2 Measuring beakers with ml and °SR measuring scales
- \* 1 replacement metal mesh