

Article No. S40130



Pulp Tester

Laboratory beater „VALLEY“

For beating of pulp under standardized conditions for laboratory purposes.



MOST IMPORTANT BENEFITS:

- ✓ Robust device made entirely of stainless steel
- ✓ Knife and knife holder made of non-corrosive materials
- ✓ Beating pressure adjustable by placing the weight, zeroing by sliding weight

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

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PRODUCT DESCRIPTION

The Laboratory Beater Type Valley is used to grind pulp under standardized laboratory conditions. Pulp fibers in aqueous suspension move under controlled conditions (speed and pressure) through a stationary counter-knife roller. The laboratory beater is used to produce pulp samples with different degrees of grinding. These can be subsequently formed into lab hand sheets to test physical properties. In this way, it is possible to evaluate the papermaking potential of pulps without requiring extensive experimentation.

The laboratory beater type "Valley" is made entirely of stainless steel. With a volume of 23 litres, the container is capable of beating 360 g of pulp. The rolls, with blades, have a diameter of 190 – 194 mm and are 152 mm wide. The bed knife contains seven 3.2 mm thick cast lead blades. The bed knife and bed of the beater are sealed by a rubber plate. A tank cover makes this a very safe design.

TEST DESCRIPTION

The 360 grams of pulp is formed into 25 x 25 mm pieces by hand, soaked with water and disintegrated. The suspension is then put in the laboratory beater type "Valley" and topped up to make 23 litres. The device is started and operates for three minutes without any weight. A sample is taken before the actual beating starts. Then a weight of 5.5 kg is fixed to the lever and the beating process is started. Samples are taken at regular intervals (for bleached pulp, 5, 10, 15 and 20 minutes, for unbleached 5, 15, 30, 60, and 90 minutes). The pulp can be used to determine the Schopper Riegler freeness and to make test sheets.

TECHNICAL DATA

DEVICE / INSTRUMENT

- Robust device made entirely of stainless steel
- Knife and knife holder made from non-corrosive materials
- Build-in motor (safety classification IP 55)
- Build-on control unit
- Discharge outlet closed with a plug
- Extended key hook for easy removal of the plug
- Safety cover secured with contact switches

APPLICABLE STANDARDS

ISO 5264/1
TAPPI T 200
TAPPI T 205

MEASUREMENT

Display: Remaining time (Timer)
System stops when timer runs out.

SYSTEM

Roller speed: 500 r/min
Standard weight: 5,5kg
Applied force: 104,9N (10,7kg)
(with attached weight)
Filling Up to 3% concentration
Up to 360g atro
Up to max.23 l

CONNECTIONS

Electrical connection: 230V / 50-60Hz
13A internal fused
Water supply: no (water is added manually)
Waste water: outflow pipe approx. 40mm
Compressed air: no

DIMENSION

Version	W x H x B
S40110	1450 x 1400 x 600 mm
Weight:	Net
S40110	190 kg

ARTIKEL / MODELLE

S401300001 Laboratory Beater Model Valley



Device with safety cover during operation



Beating pressure adjustable by use of the weight.



Adaptable weight to apply the beating pressure



Motor with safety cover