Clay Abrasion Tester

LT-S0600 | Voith Allis Valley-type abrasion principle

Reciprocating motion • Automatic cycle control • Continuous slurry circulation



6000

CYCLES TO AUTOMATIC STOP

3.5 L

SUSPENSION TANK

TS 10521 / TS 10521-T1 • Clay, calcite, sepiolite and talc samples

Photographs and Components

Abrasion assembly, machine housing, counter and operating controls

The LT-S0600 evaluates the abrasive effect of mineral suspensions on brass wire. Controlled mechanical motion and continuous circulation support laboratory comparison of different mineral raw materials.

ABRASION ASSEMBLY

The section holding the wire carries the moving abrasion apparatus.

MACHINE HOUSING

The housing accommodates the test arrangement and circulation components.



DIGITAL COUNTER

The counter on the upper panel supports monitoring of test cycles.

OPERATING CONTROLS

Start and stop buttons share the panel with the cycle counter.



Wire clamping and moving abrasion assembly



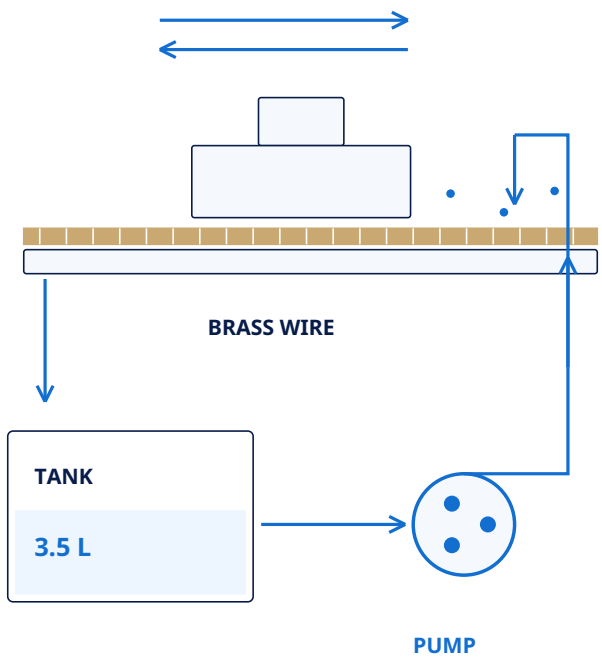
Digital counter, start and stop controls

LT-S0600

Abrasion and Suspension Circulation

Reciprocating contact • Brass wire • Peristaltic pump circulation

RECIPROCATING MOTION



Mechanical Contact

The abrasion apparatus and its weight move back and forth over the wire.

Suspension Circulation

The peristaltic pump transfers mineral suspension from the tank to the test surface.

Cycle Control

One forward and one backward movement form a cycle. The counter stops the machine at the target count.

An operating speed of 75-80 cycles/min supports consistent mechanical conditions in repeated tests. Wear on the brass wire is examined at the end of the experiment.

Brass Wire and Clamping

LT-S0600/1 brass wire has a 210 µm opening and dimensions of 22.4 × 8.7 cm. It is positioned on the perforated stainless steel support plate and secured by the clamping arrangement.

Compare Mineral Raw Materials

Assess clay, calcite, sepiolite and talc under the same preparation and test conditions. Record sample identification, suspension preparation, cycle count and observed wire wear together.

LT-S0600

Technical Data and Test Workflow

LT-S0600 / LT-S0600/1 • Cycles, circulation and brass wire specifications

Technical Specification	Value
Machine Code	LT-S0600
Standards	TS 10521 / TS 10521-T1
Operating Speed	75-80 cycles/min
Automatic Test Stop	6000 cycles
Suspension Tank	3.5 L
Circulation Pump	Peristaltic, approximately 190 L/h
Brass Wire Code	LT-S0600/1
Brass Wire Opening	210 µm
Brass Wire Dimensions	22.4 × 8.7 cm
Wire Supplied with Machine	1000 pieces
Dimensions / Approximate Weight	120 × 40 × 100 cm / 150 kg
Power Supply	220 V, 50 Hz, single phase

Wire, Support Plate and Sample Flow

Secure the brass wire on its support before testing. Check suspension circulation and the target cycle count to apply the same test setup to different samples.

Abrasion Test Workflow

01
Prepare
Load mineral suspension into the tank.

02
Secure Wire
Position brass wire on the support plate.

03
Run Test
Monitor circulation and cycle count.

04
Inspect Wear
After stopping, take the wire and record results.

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